

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1967' FSL & 594' FEL NE/SE

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

20.4 MILES SOUTHWEST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 594'
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED

TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6144'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6220.2' GRADED GROUND

22. APPROX. DATE WORK WILL START*

MARCH, 1997

23.

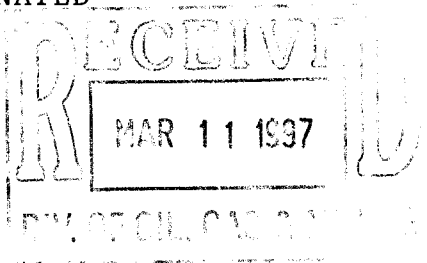
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG +) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).
7 7/8	5 1/2	15.5#	6144'	

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.

pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah
Ute Tribe, Fort Duchesne, Utah

CONFIDENTIAL



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE AGENT FOR PETROGLYPH

DATE

3-7-97

(This space for Federal or State office use)

PERMIT NO.

43-013-31852

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

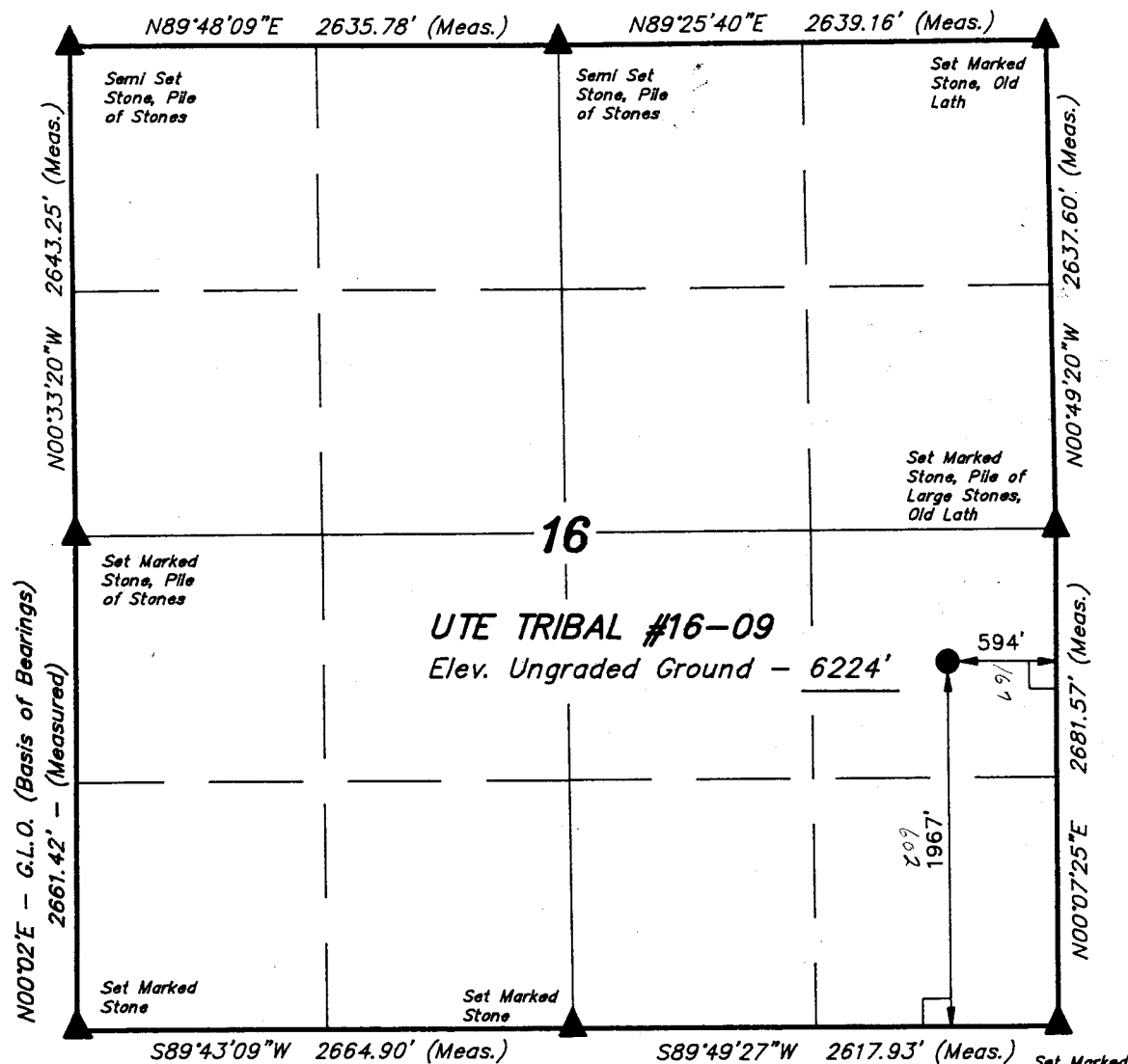
TITLE

DATE

3/25/97

*See Instructions On Reverse Side

T5S, R3W, U.S.B.&M.

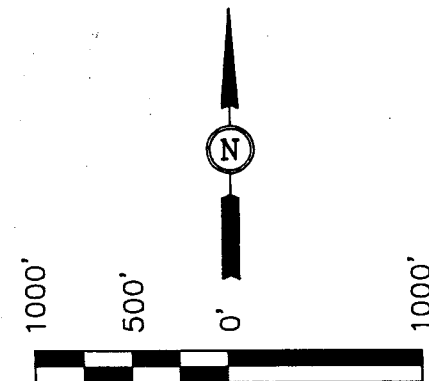


PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #16-09, located as shown in the NE 1/4 SE 1/4 of Section 16, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

BRASS CAP SET IN CONCRETE BY SUNRISE ENGINEERING LOCATED IN THE SE 1/4 OF SECTION 16, T5S, R3W, U.S.B.&M. SAID ELEVATION IS MARKED AS BEING 6281.9 FEET.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

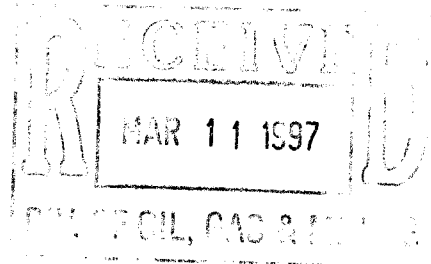
SCALE 1" = 1000'	DATE SURVEYED: 01-10-97	DATE DRAWN: 01-22-97
PARTY J.F. C.K. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE PETROGLYPH OPERATING CO., INC.	

Petroglyph Operating Co., Inc.

P.O. Box 1839

Hutchinson, KS 67504-1839

March 4, 1997



Utah Division of Oil, Gas, & Mining
Attn: Mr. Frank Matthews, Petroleum Engineer
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #16-09
NE/SE SEC. 16, T5S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO. BIA 14-20-H62-3511
UTE TRIBAL LANDS

Dear Mr. Matthews:

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter
P.O. Box 1910
Vernal, UT 84078
Phone # (801) 789-4120
Fax # (801) 789-1420

Sincerely,

Ed Trotter
Agent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt

EIGHT POINT PLAN

UTE TRIBAL #16-09
NE/SE SEC. 16, T5S R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2950	3232
"B" Marker	4062	2120
"X" Marker	4547	1635
Douglas Creek	4692	1490
"B" Limestone	5075	1107
B/Castle Peak Limestone	5630	552
Basal Carbonate Limestone	6034	148
Total Depth	6144	38

Anticipated BHP 2000 psi

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

Substance	Formation	Depth	Subsea
Oil/Gas	Douglas Creek	4692	1490
Oil/Gas	B/Castle Peak	5630	552
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

<u>MINIMUM SAFETY FACTOR</u>								
<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6144'	6144'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #16-09
NE/SE SEC. 16, T5S R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'
250' - 4000'
4000' - TD
TD

MUD TYPE

Air
Air/Mist & Aerated Water
Air/3% KCL water or KCL substitute
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface csg.
Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed
DST': None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL #16-09
NE/SE SEC. 16, T5S R3W
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

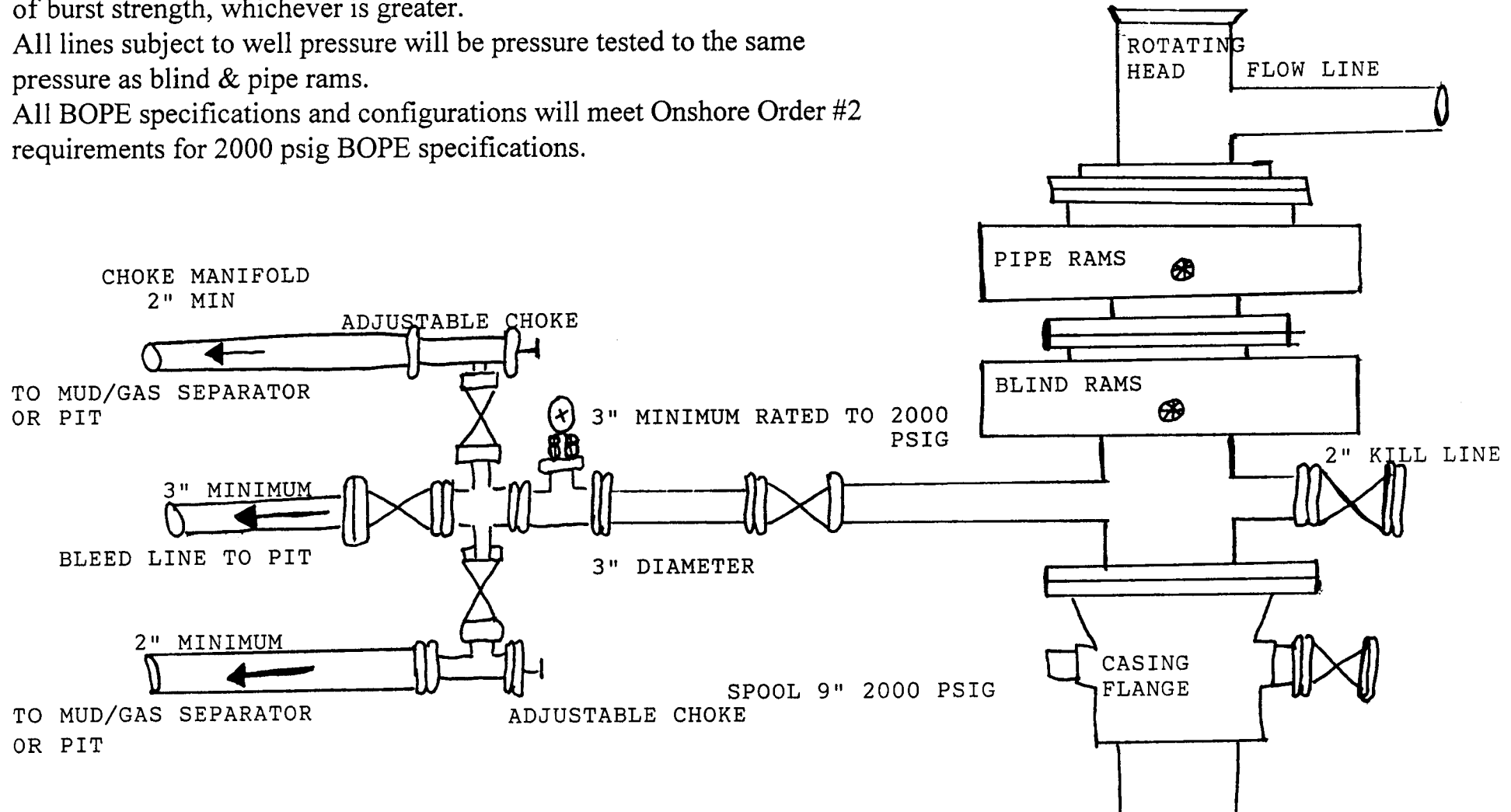
(Attachment: BOP Schematic Diagram)

2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.
CASING FLANGE IS 9" 2000 PSIG RATED.
BOPE 9" 2000 PSIG

TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.
Well Name & Number: Ute Tribal #16-09
Lease Number: BIA 14-20-H62-3511
Location: 1967' FSL & 594' FEL NE/SE, Sec. 16, T5S R3W
U.S.B.&M., Duchesne County, Utah
Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing - twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related Equipment Tests - twenty-four (24) hours prior to running casing and tests.

First Production Notice - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

THIRTEEN POINT SURFACE USE PROGRAM

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 20.4 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.1 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - None
 - B. Abandoned wells - None
 - C. Temporarily abandoned wells - None.
 - D. Disposal wells - None.
 - E. Drilling wells - None.
 - F. Producing wells - 4*
 - G. Shut in wells - None
 - H. Injection wells - None
- (*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines - None

4. Gas gathering lines-None
5. Injection lines - None
6. Disposal lines - None
7. Surface pits - None

B. OFF WELL PAD

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 1000' from proposed location to a point in the SE/SE of Section 16, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline to the Ute Tribal #16-11. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Ute Tribal #16-11 location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded.
The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.

B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

 To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

 To protect the environment (without a chemical analysis)
reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

 Storage tanks will be used if drill sites are located on tribal

irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the South side of the location.

The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the East end.

Access to the well pad will be from the Southwest.

N/A Diversion ditch(es) shall be constructed on the _____ side of the location (above/below) the cut slope, draining to the _____

N/A Soil compacted earthen berm(s) shall be placed on the _____ side(s) of the location between the _____

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons _____

X Corners No. 2, 6, & 8 will be rounded off to minimize the fill.

FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/ shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to

satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

11. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

12. OTHER INFORMATION

- A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:
-whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA,

or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator,

the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations

N/A No construction or drilling activities shall be conducted between _____ and _____ because of _____

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately _____ ft. _____ of the location, as flagged on onsite.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter
1620 West 750 North
Vernal UT 84078
Telephone # (801)789-4120
Fax # (801) 789-1420

OPERATIONS

Vince Guinn
P.O. Box 607
Roosevelt, UT 84066
(801) 722-2531
Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

3-7-97

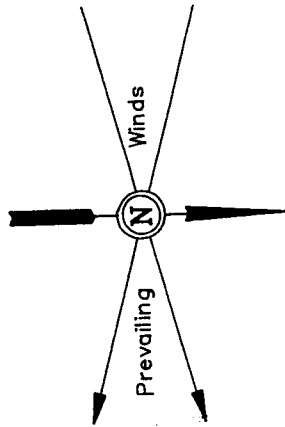
Date

Ed Smith

PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

UTE TRIBAL #16-09
SECTION 16, T5S, R3W, U.S.B.&M.
1967' FSL 594' FEL

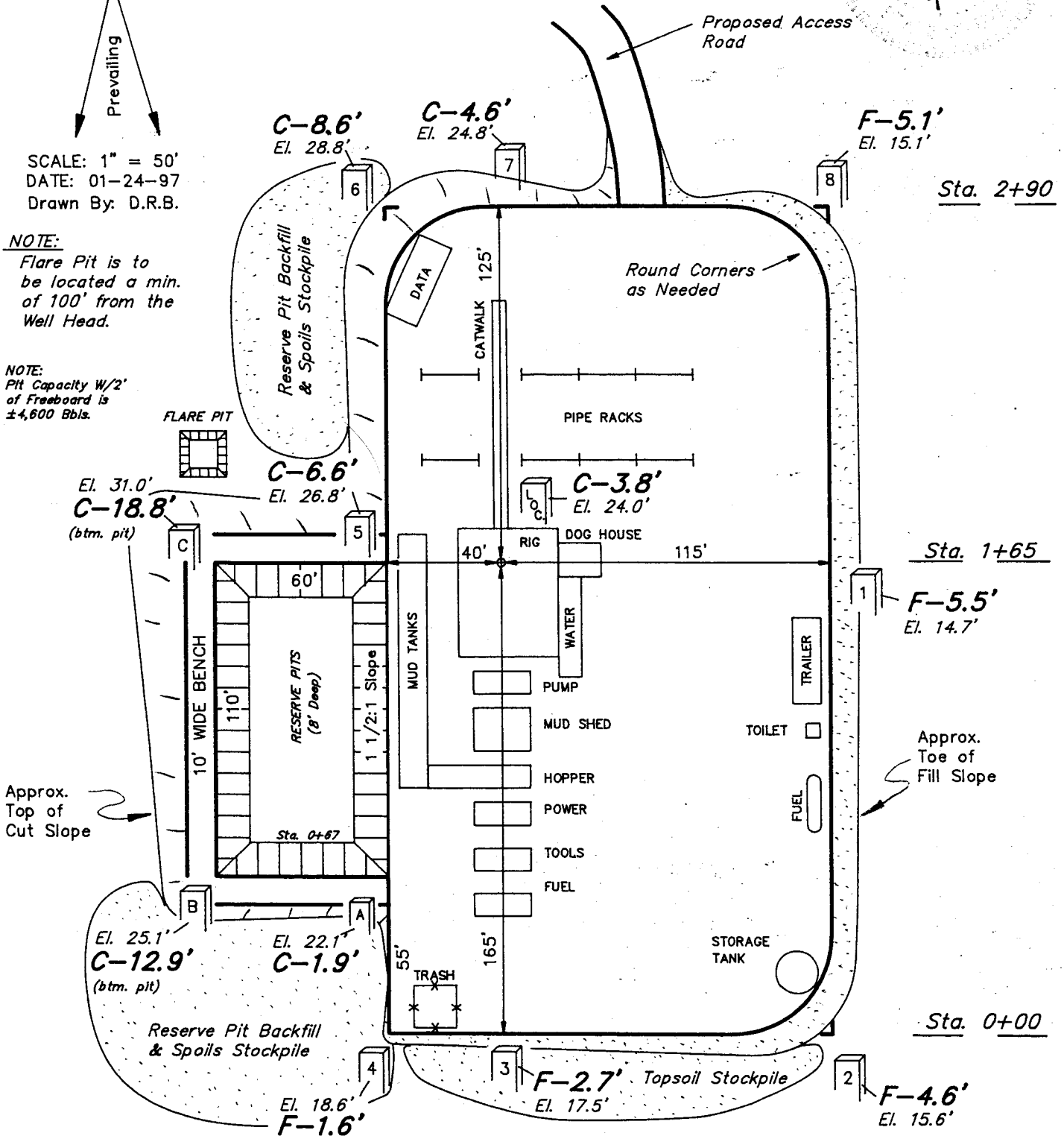


SCALE: 1" = 50'
DATE: 01-24-97
Drawn By: D.R.B.

NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

NOTE:
Pit Capacity W/2' of Freeboard is ±4,600 Bbls.



Elev. Ungraded Ground at Location Stake = 6224.0'

Elev. Graded Ground at Location Stake = 6220.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

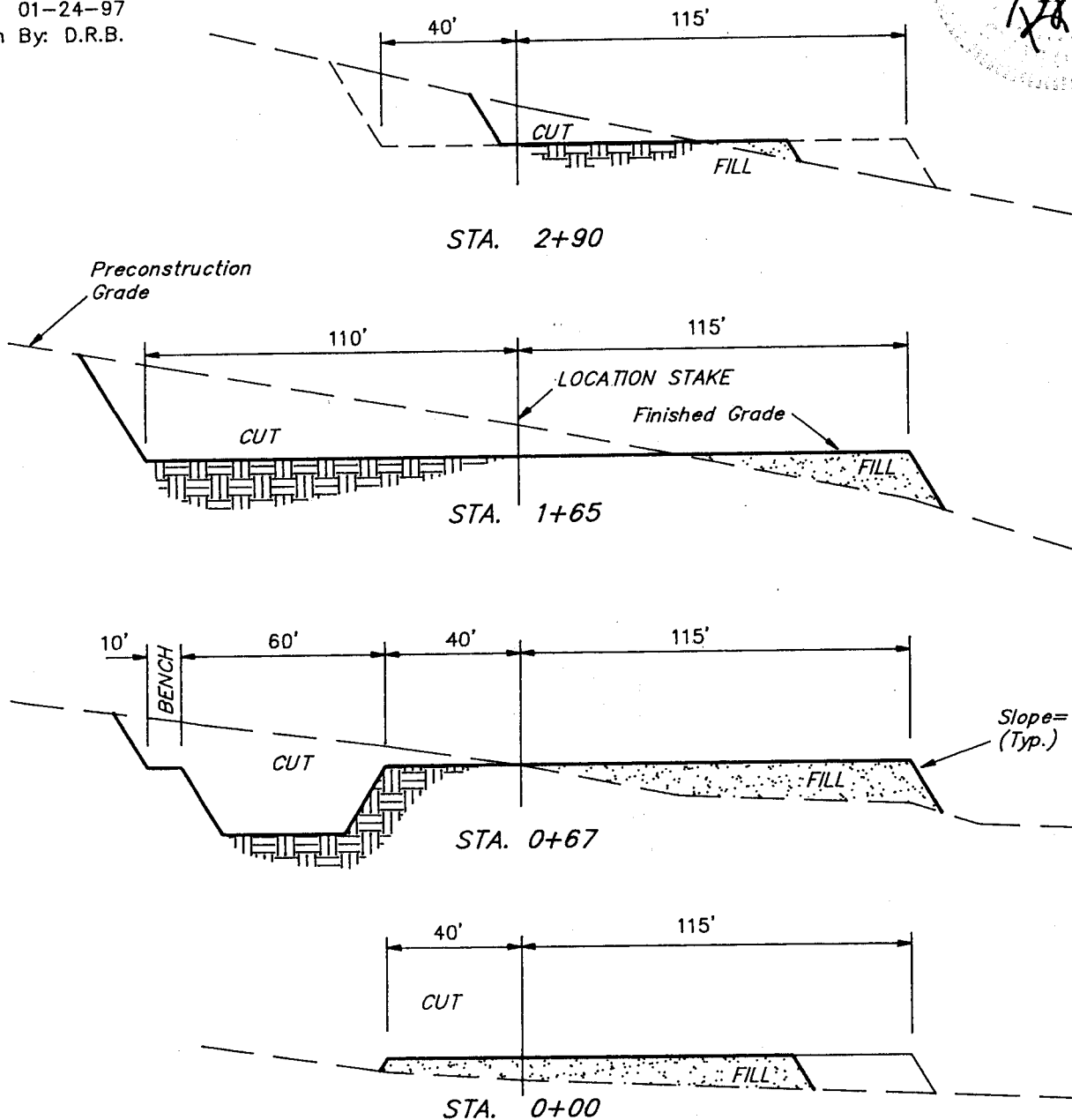
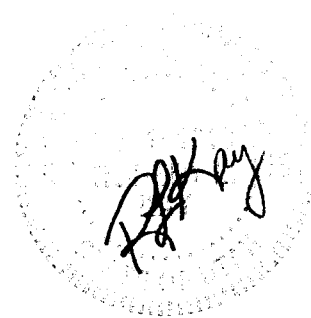
PETROGLYPH OPERATING CO., INC.

TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #16-09
SECTION 16, T5S, R3W, U.S.B.&M.
1967' FSL 594' FEL

1" = 20'
X-Section
Scale
1" = 50'

DATE: 01-24-97
Drawn By: D.R.B.

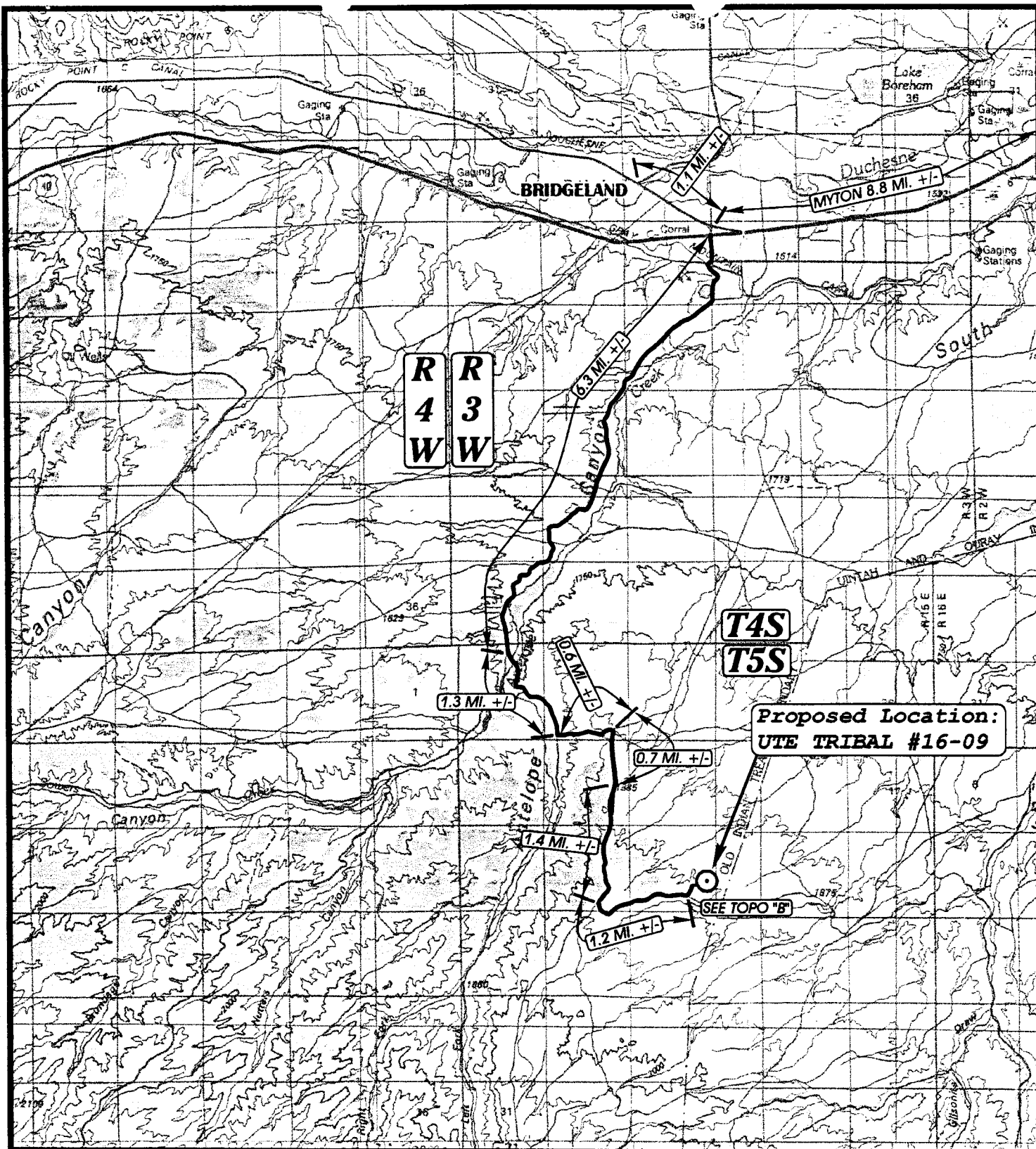


APPROXIMATE YARDAGES

(12") Topsoil Stripping = 1,910 Cu. Yds.
Remaining Location = 5,360 Cu. Yds.
TOTAL CUT = 7,270 CU.YDS.
FILL = 4,430 CU.YDS.

EXCESS MATERIAL AFTER
5% COMPACTION = 2,610 Cu. Yds.
Topsoil & Pit Backfill
(1/2 Pit Vol.) = 2,610 Cu. Yds.
EXCESS UNBALANCE = 0 Cu. Yds.
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017



UEIS

TOPOGRAPHIC
MAP "A"

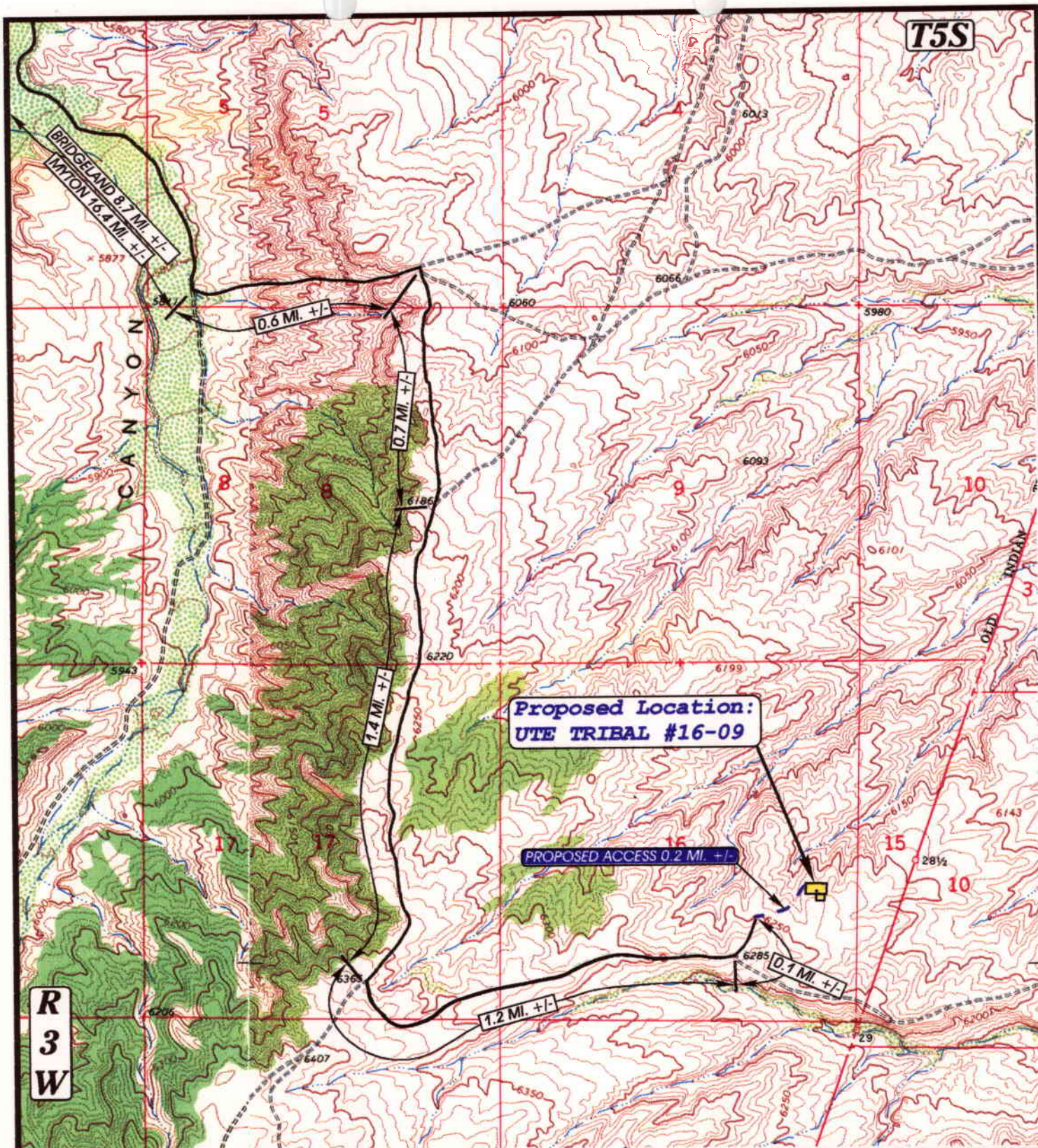
DATE: 1-22-97
Drawn by: D.COX

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-09
SECTION 16, T5S, R3W, U.S.B.&M.
1967' FSL 594' FEL



**R
3
W**

UTELs

**TOPOGRAPHIC
MAP "B"**

**DATE: 1-22-97
Drawn by: D.COX**

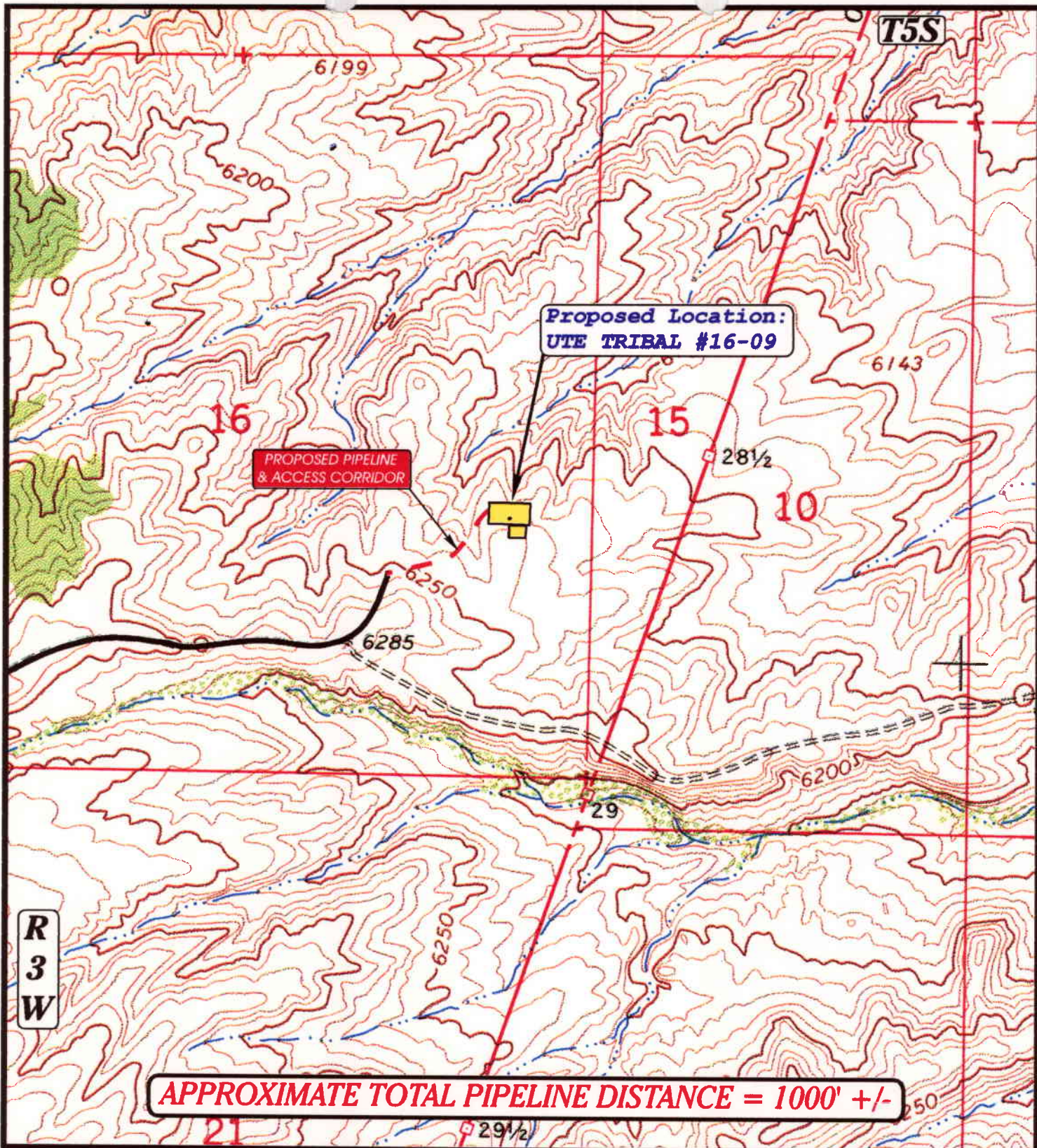
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



SCALE: 1" = 2000'

PETROGLYPH OPERATING CO., INC.

**UTE TRIBAL #16-09
SECTION 16, T5S, R3W, U.S.B.&M.
1967' FSL 594' FEL**



APPROXIMATE TOTAL PIPELINE DISTANCE = 1000' +/-

U
E
I
S

**TOPOGRAPHIC
MAP "D"**

--- Proposed Pipeline Corridor



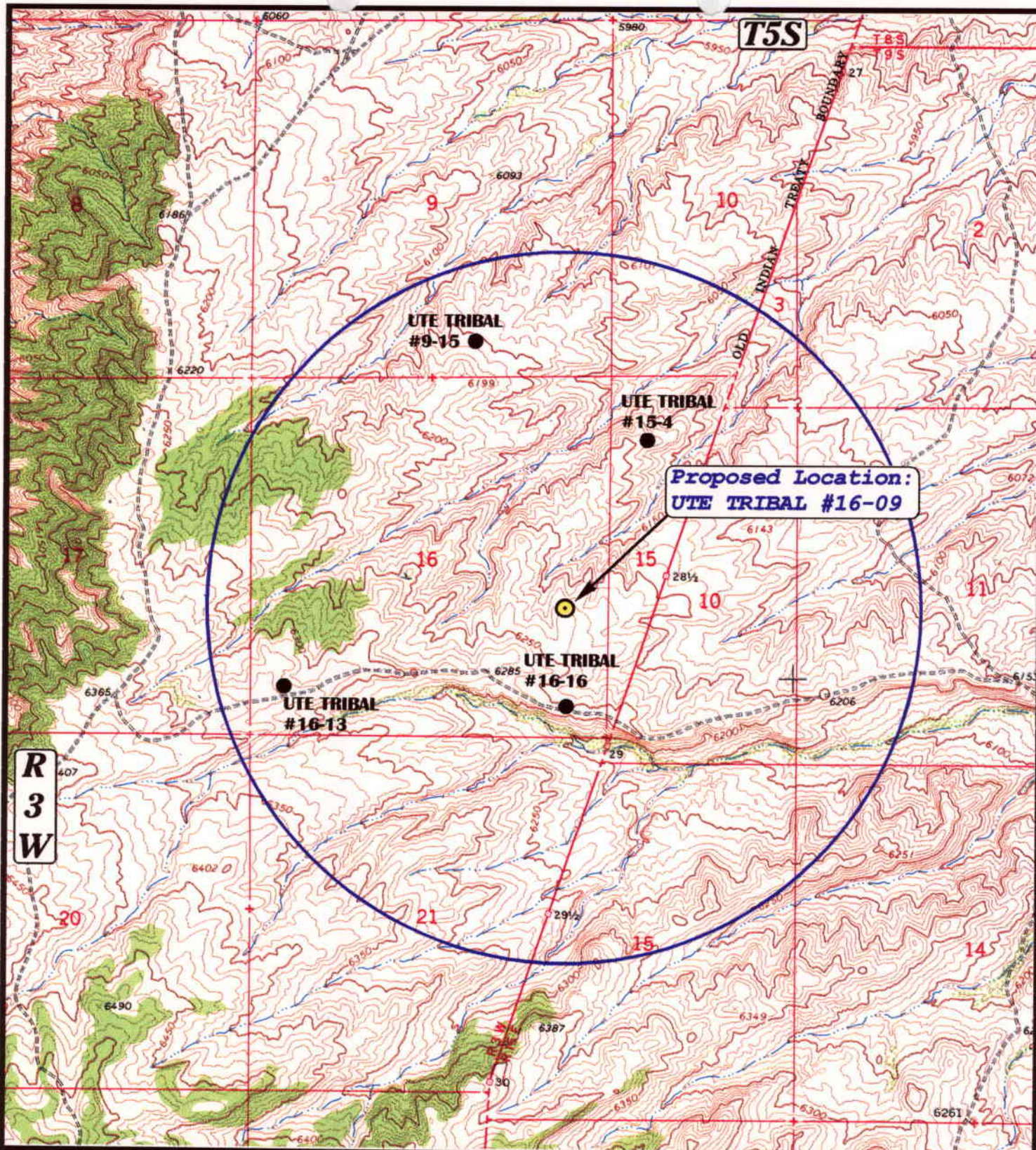
PETROGLYPH OPERATING CO., INC.

**UTE TRIBAL #16-09
SECTION 16, T5S, R3W, U.S.B.&M.**

**DATE: 1-23-97
Drawn by: D.COX**

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017

SCALE: 1" = 1000'



LEGEND:

U
E
L
S

- Water Wells
- Abandoned Wells
- Temporarily Abandoned Wells
- Disposal Wells
- Drilling Wells
- Producing Wells
- Shut-in Wells

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



SCALE: 1" = 2000'

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-09
SECTION 16, T5S, R3W, U.S.B.&M.
TOPOGRAPHIC MAP "C"

DATE: 1-22-97
Drawn by: D.COX

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/11/97

API NO. ASSIGNED: 43-013-31852

WELL NAME: UTE TRIBAL 16-09
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

NESE 16 - T05S - R03W
SURFACE: 1967-FSL-0594-FEL
BOTTOM: 1967-FSL-0594-FEL
DUCHESNE COUNTY
ANTELOPE CREEK FIELD (060)

LEASE TYPE: IND
LEASE NUMBER: 14-20-H62-3511

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Federal ☒ State ☐ Fee ☐
(Number BO 4556)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number 43-10152)
☒ RDCC Review (Y/N)
(Date: _____)

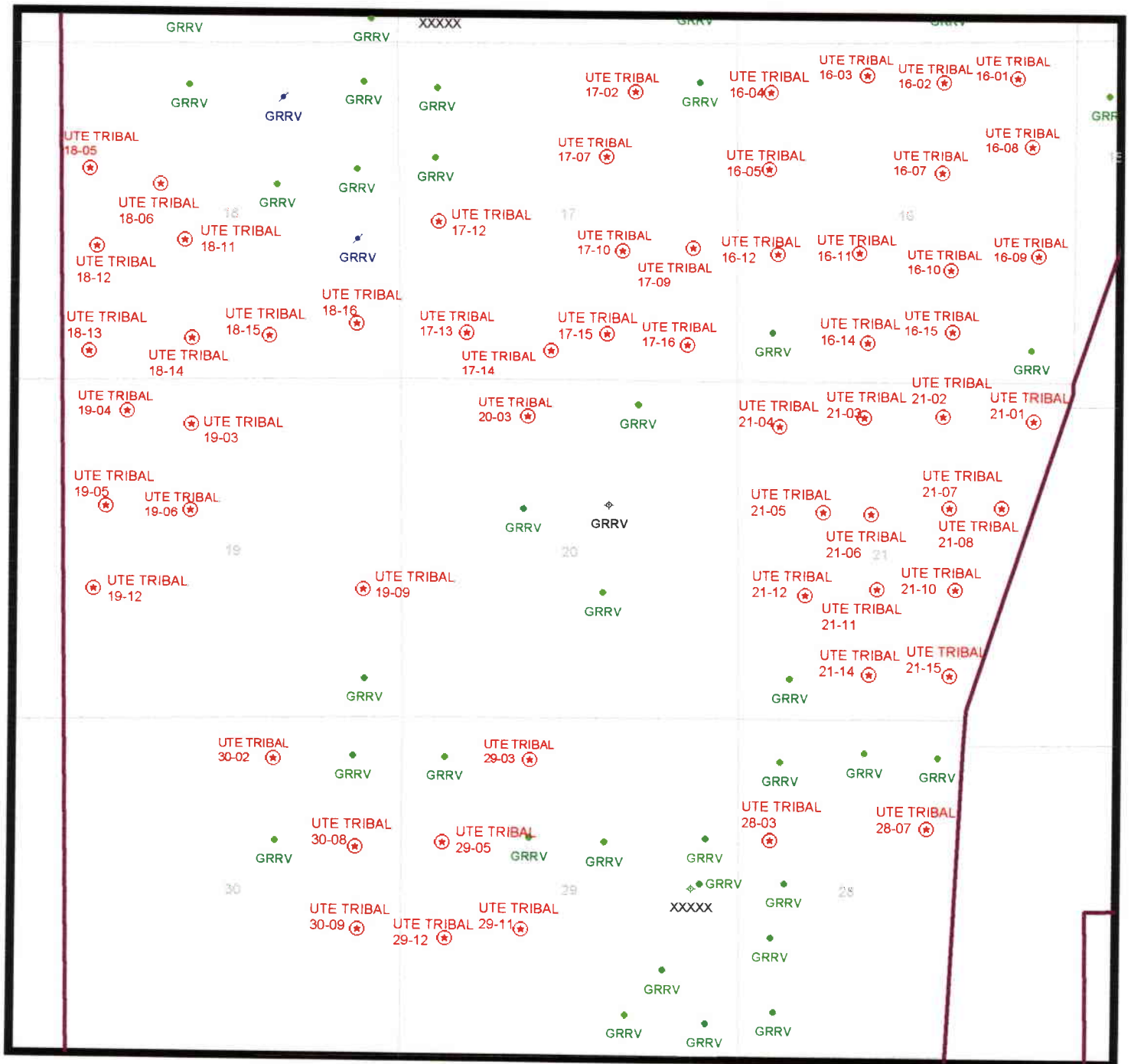
LOCATION AND SITING:

____ R649-2-3. Unit: _____
☒ R649-3-2. General.
____ R649-3-3. Exception.
____ Drilling Unit.
____ Board Cause no: _____
____ Date: _____

COMMENTS: _____

STIPULATIONS: _____

OPERATOR: PETROGLYPH
FIELD: ANTELOPE CREEK (060)
SEC. TWP. RNG: 16,17,18,19,29,33, T5S, R3W
COUNTY: DUCHESNE
UAC: R649-3-2 & R649-3-3



PREPARED:
DATE: 13-MAR-97

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 16-09

API Number: 43-013-31852

Lease Number: 14-20-H62-3511

Location: NESE Sec. 16 T.5S R. 3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kenczka (801) 781-1190
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PROGRAM
Conditions of Approval (COAs)

The Surface Use Conditions of Approval all come from the Bureau of Indian Affairs Concurrence Memorandum and Site Specific Environmental Analysis.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

Fifty (50) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 22 feet, except as granted for sharp curves or intersections.

Surface pipelines shall be limited to 13 feet of the ROW. The pipeline will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the ROW. Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline ROW will not be used as an access road.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Buried pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Any additional buried pipelines shall be parallel to the outer side of the first buried pipeline and shall be constructed as close to the first pipeline as safety requirements allow.

After construction of the buried pipeline is completed the disturbed area of the ROW shall be contoured to blend into the natural landscape and it shall be reseeded with desirable vegetation as recommended by the BIA. Between September 15 and November 1 of the year following pipeline construction all disturbed areas shall be reseeded with perennial vegetation according to BIA, or Ute Tribe specifications.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Firewood shall be stockpiled at convenient locations near the wellsite and along the access road.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by Petroglyph Operating Company so that a Tribal Technician can verify Affidavit of Completion's.

memorandum

DATE: MAR. 17 1997

REPLY TO
ATTN OF:SUBJECT: Superintendent, Uintah & Ouray Agency
Concurrence Letter for PETROGLYPH OPERATING CO. INC.

UT 16-08, SEC. 16, SENE
UT 16-03, SEC. 16, NENW
TO: UT 16-07, SEC. 16, SWSE & NESW,
Bureau of Land Management, Vernal District Office
Attention: Minerals and Mining Division

UT 16-09, SEC. 16, NESE
UT 16-10, SEC. 16, NWSE
UT 16-15, SEC. 16, SWSE

UT 16-01 to tie into UT 16-02,
Sec. 16, N/2NE,

RECEIVED

MAR 20 1997

We recommend approval of the Application for Permit to Drill on the subject well.

Based on available information received on March 17, 1997, we cleared the proposed location in the following areas of environmental impact.

YES x NO Listed threatened or endangered species
YES x NO Critical wildlife habitat
YES x NO Archaeological or cultural resources
YES NO Air quality aspects (to be used only if
project is in or adjacent to a Class I area

REMARKS: The Ute Tribe Energy & Minerals Department is recommending the following criteria to be adhered during all phases of construction activities.

1. The Ute Tribe Energy and Minerals Department is to be notified 48 hours prior to construction as a Tribal Technician is to monitor construction.
2. 50 foot corridor rights-of-way shall be granted with the following:
 - A. Buried pipelines shall be buried minimum of 3 feet below soil surface.
 - B. Access roads shall be limited to 22 feet, except as granted for sharp turns.
 - C. Surface pipelines shall be limited to 13 feet wide.
 - D. Buried pipeline shall be limited to 15 feet wide, and construction will be monitored by Tribal Technician.
3. Pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, as safety requirements will allow.
4. Petroglyph Operating Co. Inc. will assure the Ute Tribe that any/all contractors and any sub-contractors has acquired a Tribal Business License and have an access permits prior to construction.
5. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
6. All mitigative stipulations contained in the Bureau of Indian Affairs, combined site specific Environmental Analysis (EA), will be strictly adhered.
7. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
8. The personnel from the Ute Tribe Energy & Minerals Department should be consulted, should cultural remains from subsurface deposits be exposed during construction work.
9. Upon completion of Application for Right-of-way, the Ute Tribe Energy and Minerals Department will be notified by Petroglyph Operating Co. Inc., so that a Tribal Technician can verify Affidavit of Completions.

Charles H. Cameron

ATTACHMENT: (7) BIA Environmental Analysis, for each location.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-3511
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE INDIAN TRIBE
2. NAME OF OPERATOR PETROGLYPH OPERATING COMPANY, INC.		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. P.O. BOX 607, ROOSEVELT, UT 84066		8. FARM OR LEASE NAME, WELL NO. UTE TRIBAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1967' FSL & 594' FEL NE/SE At proposed prod. zone		9. AP WELL NO. #16-09
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20.4 MILES SOUTHWEST OF MYTON, UTAH		10. FIELD AND POOL, OR WILDCAT ANTELOPE CREEK
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 594' (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE 640	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 16, T5S, R3W
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 6144'	12. COUNTY OR PARISH DUCHESTER
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6220.2' GRADED GROUND	20. ROTARY OR CABLE TOOLS ROTARY	13. STATE UTAH
22. APPROX. DATE WORK WILL START* MARCH, 1997		

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake. 50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG ±) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).
7 7/8	5 1/2	15.5#	6144'	

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.

pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah
Ute Tribe, Fort Duchesne, Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE AGENT FOR PETROGLYPH DATE 3-7-97
(This space for Federal or State office use)

PERMIT NO. U+080-7M-180 CONDITIONS OF APPROVAL ATTACHED
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE MAR 21 1997

*See Instructions On Reverse Side



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

March 25, 1997

Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, Utah 84066

Re: Ute Tribal 16-09 Well, 1967' FSL, 594' FEL, NE SE, Sec. 16,
T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31852.

Sincerely,

R. J. Firth
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company, Inc.
Well Name & Number: Ute Tribal 16-09
API Number: 43-013-31852
Lease: 14-20-H62-3511
Location: NE SE Sec. 16 T. 5 S. R. 3 W.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

ADDRESS

P.O. Box 1839

OPERATOR ACCT. NO N3700

Hutchinson, KS 67504-1839

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12273	43-013-31852	Ute Tribal 16-09	NESE	16	5S	3W	Duchesne	3-29-97	
WELL 1 COMMENTS: Entity added 12-15-97. Lec											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
B - Add new well to existing entity (group or unit well)
C - Re-assign well from one existing entity to another existing entity
D - Re-assign well from one existing entity to a new entity
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(1/89)

Deanna Bell
Signature Deanna Bell
Operations Coordinator 3/31/97
Title Date
Phone No. (801) 722-2531

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: PETROGLYPH OPERATING.

Well Name: UTE TRIBAL 16-09

Api No. 43-013-31852

Section: 16 Township: 5S Range: 3W County: DUCHESNE

Drilling Contractor UNION

Rig # 7

SPUDDED:

Date 3/28/97

Time

How ROTARY

Drilling will commence

Reported by D. INGRAM

Telephone #

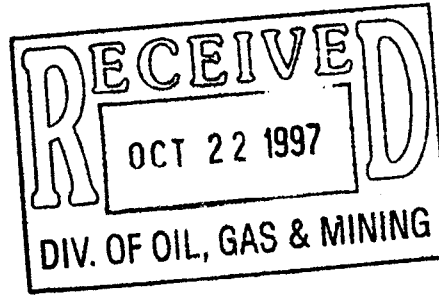
Date: 4/2/97 Signed: JLT

PETROGLYPH Operating Company, Inc.

6209 North Highway 61, Hutchinson, Kansas 67502 • P.O. Box 1839, Hutchinson, Kansas 67504-1839



October 17, 1997



Vicky Dyson
State of Utah
Division of Oil, Gas & Mining
1594 W. North Temple, Ste.1210
Salt Lake City, UT 84114

CONFIDENTIAL

Ms. Dyson:

Enclosed are the logs and completion reports for the below listed wells located in Duchesne County, Utah.

<u>Well Name</u>	<u>Log</u>
Ute Tribal 29-12	CNL & AIT
Ute Tribal 16-09	CNL & AIT 43 013 31852 T055 R03W 16
Ute Tribal 16-10	CNL & AIT
Ute Tribal 16-02	CNL & AIT

If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

Judy Gates
Petroleum Geology Technician

FORM 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: ute tribal 16-09API number: 43-013-318522. Well Location: QQ NESE Section 16 Township 5S Range 3W County Duchesne3. Well operator: Petroglyph Operating Company, Inc.Address: P.O. Box 1007Las Vegas, UT 84066Phone: 801-722-25314. Drilling contractor: Union DrillingAddress: P.O. Drawer 40Buckhannon, WV 26201Phone: 304-472-4610

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
	297	Damp	
524		Blow test	Dry
856		Switch over Air foam	Damp
1356'		Blow test	1" SAN
4312		Blow test	20/10 w/ H2O

6. Formation tops:

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 4/5/97Name & Signature: Lenna BellTitle: Operations Coordinator

CONFIDENTIAL

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.
Lease: Ute Tribal 16-09
API #: 43-013-31852
Location: 16 - 5 S - 3 W
County, St.: Duchesne UT

Elevation: KB 6230
GL 6220
Property: 50154
AFE/EPE Number: 41340

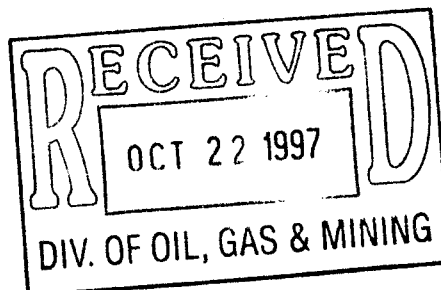
Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

5/20/97	\$233.00	
---------	----------	--

Surface: Work on WH.

5/12/97	\$172.00	
---------	----------	--

Surface: Work on flow line construction.



COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

5/8/97	\$22,981.00	PERFORATIONS:
		5662-5666 Green River (Castle Peak) 4 SPF 16 shots (undifferentiated)
		5354-5360 Green River D (07) 4 SPF 24 shots
		5232-5234 Green River D (03.4) 4 SPF 8 shots
		5212-5224 Green River D (03.3) 4 SPF 48 shots
		5157-5161 Green River D (01) 4 SPF 16 shots
		5038-5044 Green River C (08.2) 4 SPF 24 shots
		5030-5032 Green River C (08.2) 4 SPF 8 shots
		4962-4964 Green River C (06) 4 SPF 8 shots
		4947-4949 Green River C (06) 4 SPF 8 shots
		4932-4934 Green River C (06) 4 SPF 8 shots
		4799-4801 Green River C (05) 4 SPF 8 shots
		4778-4790 Green River C (04) 4 SPF 48 shots
		WELLBORE:
		6192 RTD
		6193 LTD
		6140 PBTD
		6182 CSA

Open well w/ BVBP set @ 1872'. SICP @ 0 psi. RU Schlumberger & run CBL from 1600' to surf. RIH w/ ret head & rel BVBP @ 1872' & POOH. RIH w/ BHA & prod'n tbg.

RD BOPs & frac head. RU prod'n head & set B2 TAC w \pm 10000# tension. NU prod'n head. XO to rod equip. Prime pump & RIH w/ rod string. Load tbg & test to 500 psi. Stroke test pump to 500 psi. NU prod'n. RD serv rig. Final Report. Waiting on surf equip.

TWTR @ 1322 bbls.

TUBING DETAIL	LENGTH	DEPTH
KB	10.00	
2-7/8" x 6.5# J55 tbg (151 jts)	4709.49	
5 1/2" B2 TAC	2.66	4719.49
2-7/8" x 6.5# J55 tbg (30 jts)	935.40	
2-7/8" PSN	1.20	5657.55
2-7/8" tbg (1 jt)	31.07	
2-7/8" mech SN	.82	
2-7/8" x 6' perf sub	6.09	
2-7/8" tbg (2 jts)	62.76	
2-7/8" bull plug	.70	
EOT		5760.19

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

ROD DETAIL

1½" x 22' PR w/ liner

2' x 7/8" pony (1)

4' x 7/8" pony (1)

6' x 7/8" pony (1)

7/8" slick rods (79)

3/4" rods (147 - 10 guided each 4th from
btm)

2½" x 1-3/4" x 16' 40 rin PA RHAC

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.
Well: Ute Tribal 16-09
County, St.: Duchesne UT
Elevation: KB 6230
 GL 6220

Activity Date Daily Cost Activity Description

5/6/97	\$6,402.00	PERFORATIONS:
	5662-5666	Green River (Castle Peak) (undifferentiated) 4 SPF 16 shots
	5354-5360	Green River D (07) 4 SPF 24 shots
	5232-5234	Green River D (03.4) 4 SPF 8 shots
	5212-5224	Green River D (03.3) 4 SPF 48 shots
	5157-5161	Green River D (01) 4 SPF 16 shots
	5038-5044	Green River C (08.2) 4 SPF 24 shots
	5030-5032	Green River C (08.2) 4 SPF 8 shots
	4962-4964	Green River C (06) 4 SPF 8 shots
	4947-4949	Green River C (06) 4 SPF 8 shots
	4932-4934	Green River C (06) 4 SPF 8 shots
	4799-4801	Green River C (05) 4 SPF 8 shots
	4778-4790	Green River C (04) 4 SPF 48 shots
	WELLBORE:	
	6192	RTD
	6193	LTD
	6140	PBTD
	6182	CSA

Open well w/ C4, C5 & C6 zones swbd to 1600' & MOC @ 38% last PM. This AM SICP @ 250 psi & SITP @ 200 psi. RU & make swb run. FL @ 800'. Top 1000' oil. RD swb & circ well clean w/ hot K wtr.

RIH & tag sand @ 4900'. Clean out to BVBP @ 5000'. Rel BVBP & POOH to 1872' & reset BVBP. Test BVBP to 1000 psi & spot 10 gal sand on top of BVBP. POOH w/ ret head. RIH w/ port collar set tool & open port collar @ 1561'.

RU HES & brk circ w/ 20 bbls FW. Cmt port collar to surf w/ 150 sx Highfill (@ 11 ppg & 3.79 cuft/sk). Circ ± 10 bbls cmt to pit. Close port collar & test csg to 500 psi. Rev out cmt from tbg. RD HES & POOH w/ set tool. RIH w/ ret head to 1871' & circ well for 2 hrs w/ 200° K wtr to help set up cmt. SWIFN.

BHP = 1922 psi = .40 psi/ft (calc @ C4 zone @ 4778').

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

5/5/97	\$994.00	PERFORATIONS:		
		5662-5666	Green River (Castle Peak) (undifferentiated)	4 SPF 16 shots
		5354-5360	Green River D (07)	4 SPF 24 shots
		5232-5234	Green River D (03.4)	4 SPF 8 shots
		5212-5224	Green River D (03.3)	4 SPF 48 shots
		5157-5161	Green River D (01)	4 SPF 16 shots
		5038-5044	Green River C (08.2)	4 SPF 24 shots
		5030-5032	Green River C (08.2)	4 SPF 8 shots
		4962-4964	Green River C (06)	4 SPF 8 shots
		4947-4949	Green River C (06)	4 SPF 8 shots
		4932-4934	Green River C (06)	4 SPF 8 shots
		4799-4801	Green River C (05)	4 SPF 8 shots
		4778-4790	Green River C (04)	4 SPF 48 shots
		WELLBORE:		
		6192	RTD	
		6193	LTD	
		6140	PBTD	
		6182	CSA	

Open well. C4, C5 & C6 zones swbd to 1600' & oil cut @ 8% last PM. This AM SICP @ 200 psi & SITP @ 200 psi. RU & swb well. Made 17 runs. IFL @ 400'. Top 900' oil. Oil cut @ trace on run #3 & incr to 38% on run #17. FFL @ 1600'. TWR @ 104 bbls. TOR @ 13 bbls. SWIFN.

BHP = 2095 psi = .44 psi/ft. (calc @ C4 perfs @ 4778).

FLUID RECOVERY

ZONE BLF:	792
ZONE BLFR:	331
ZONE BLFTR:	461
ZONE % REC:	41.8%
WELL BLF:	2509
WELL BLFR:	1291
WELL BLFTR:	1218
WELL % REC:	51.5%

10/15/97

COMPLETION REPORT*Petroglyph Operating Co., Inc.***Operator:** Petroglyph Operating Company, Inc.**Elevation:** KB 6230**Well:** Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT**Activity Date Daily Cost Activity Description**

5/4/97	\$1,965.00	PERFORATIONS:		
		5662-5666	Green River (Castle Peak)	4 SPF 16 shots
		5354-5360	Green River D (07)	4 SPF 24 shots
		5232-5234	Green River D (03.4)	4 SPF 8 shots
		5212-5224	Green River D (03.3)	4 SPF 48 shots
		5157-5161	Green River D (01)	4 SPF 16 shots
		5038-5044	Green River C (08.2)	4 SPF 24 shots
		5030-5032	Green River C (08.2)	4 SPF 8 shots
		4962-4964	Green River C (06)	4 SPF 8 shots
		4947-4949	Green River C (06)	4 SPF 8 shots
		4932-4934	Green River C (06)	4 SPF 8 shots
		4799-4801	Green River C (05)	4 SPF 8 shots
		4778-4790	Green River C (04)	4 SPF 48 shots
		4778-4790		
		WELLBORE:		
		6192	RTD	
		6193	LTD	
		6140	PBTD	
		6182	CSA	

Open well w/ C4-C5 zones open & plug above C6 zones. SICP @ 20 psi. RIH w/ 4 11/16 short catch overshot to RBP @ 4850'. Latch onto RBP & circ clean & rel RBP. POOH & LD RBP & overshot.

RIH w/ ret head for BVBP & tag sand @ 4970'. POOH to 4682' & RU swb. Made 20 runs in 4½ hrs. IFL @ 200'. Had trace of oil on run #9 & incr to 8% on last run. TWR @ 145 bbls. TOR @ 4 bbls. FFL @ 1600'. SWIFN.

FLUID RECOVERY

ZONE BLF:	792
ZONE BLFR:	227
ZONE BLFTR:	565
ZONE % REC:	28.7%
WELL BLF:	2509
WELL BLFR:	1187
WELL BLFTR:	1322
WELL % REC:	47.3%

COMPLETION REPORT

Petroglyph Operating Co., Inc.

10/15/97

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

5/3/97	\$1,675.00	PERFORATIONS:		
		5662-5666	Green River (Castle Peak) (undifferentiated)	4 SPF 16 shots
		5354-5360	Green River D (07)	4 SPF 24 shots
		5232-5234	Green River D (03.4)	4 SPF 8 shots
		5212-5224	Green River D (03.3)	4 SPF 48 shots
		5157-5161	Green River D (01)	4 SPF 16 shots
		5038-5044	Green River C (08.2)	4 SPF 24 shots
		5030-5032	Green River C (08.2)	4 SPF 8 shots
		4962-4964	Green River C (06)	4 SPF 8 shots
		4947-4949	Green River C (06)	4 SPF 8 shots
		4932-4934	Green River C (06)	4 SPF 8 shots
		4799-4801	Green River C (05)	4 SPF 8 shots
		4778-4790	Green River C (04)	4 SPF 48 shots
		WELLBORE:		
		6192	RTD	
		6193	LTD	
		6140	PBTD	
		6182	CSA	

Open well w/ C4-C5 zones open & flowed to 0 psi last PM. This AM SICP @ 0 psi. RIH w/ ret head & tag sand @ 4275' (503' of sand above perms). Clean out to RBP @ 4850'.

Rel BVBP & POOH. Did not have RBP. Inspect ret head & RIH to RBP @ 4850'. Worked to get on RBP. Circ, rotated, etc. Could not get RBP. POOH w/ ret head. Ret head torn up. SWIFN.

COMPLETION REPORT

Petroglyph Operating Co., Inc.

10/15/97

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

5/2/97	\$35,093.00	PERFORATIONS:		
		5662-5666	Green River (Castle Peak) (undifferentiated)	4 SPF 16 shots
		5354-5360	Green River D (07)	4 SPF 24 shots
		5232-5234	Green River D (03.4)	4 SPF 8 shots
		5212-5224	Green River D (03.3)	4 SPF 48 shots
		5157-5161	Green River D (01)	4 SPF 16 shots
		5038-5044	Green River C (08.2)	4 SPF 24 shots
		5030-5032	Green River C (08.2)	4 SPF 8 shots
		4962-4964	Green River C (06)	4 SPF 8 shots
		4947-4949	Green River C (06)	4 SPF 8 shots
		4932-4934	Green River C (06)	4 SPF 8 shots
		4799-4801	Green River C (05)	4 SPF 8 shots
		4778-4790	Green River C (04)	4 SPF 48 shots
		WELLBORE:		
		6192	RTD	
		6193	LTD	
		6140	PBTD	
		6182	CSA	

Open well w/ C8.2 & D1 zones swbd to 2000' & MOC @ 8% last PM. This AM SICP @ 350 psi & SITP @ 350 psi. RU & ck FL @ 1200'. Top 100' oil. RIH from 4932' to top sand @ 5110'. Clean out to BVBP @ 5198'. Rel BVBP & POOH to \pm 5000 & reset BVBP & test to 4000 psi. POOH to 4970' & spot 500 gal 15% HCL @ C6 perf interval. POOH w/ ret head.

RU HLS & perf C6 zone @ 4932-34' w/ 4 spf (8 holes), 4947-49' w/ 4 spf (8 holes) & 4962-64' w/ 4 spf (8 holes). Bkdn C6 perms @ \pm 2400 psi & frac w/ 7730 gal Boragel 30 w/ 42500# 20/40 sand @ .5 - 10 ppg. MTP @ 4320 psi. ATP @ 2700 psi. MTR @ 32.4 bpm. ATR @ 30.2 bpm. ISIP @ 4170 psi & 5 min @ 2702 psi. Pfg @ 1.2.

RU HLS & lub in hole w/ RBP & perf guns. Set RBP @ \pm 4850' & test to 3000 psi. Perf C4 zone @ 4778-90' w/ 4 spf (48 holes) & C5 zone @ 4799-4801' w/ 4 spf (8 holes). Bkdn perms w/ K wtr @ 3000 psi. Frac C4 & C5 zones w/ 250 gal 15% HCL & 10745 gal Boragel w/ 64100# 20/40 sand @ .5 to 10 ppg. MTP @ 2700 psi. ATP @ 2300 psi. MTR @ 32.4 bpm. ATR @ 31.2 bpm. ISIP @ 2546 psi & 5 min @ 2351 psi. Pfg @ .98.

Flow C4-C5 zone to tank @ 5 min SI @ \pm 60 bph. Flowed 82 bbls to 0 psi. SWIFN.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7730	gal

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

PROPPANT:	Type	Total Lbs:	Ramp Range
1	20/40 sand	42500	.5-10

PRESSURE/RATE:	
Maximum:	4320 psi 32.4 BPM
Average:	2700 psi 30.2 BPM

SI PRESSURE:	TP	CP
ISIP:	4170	
5 Min:	2702	

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	10745	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
1	20/40 sand	64100	.5-10

PRESSURE/RATE:	
Maximum:	2700 psi 32.4 BPM
Average:	2300 psi 31.2 BPM

SI PRESSURE:	TP	CP
ISIP:	2546	
5 Min:	2351	

FLUID RECOVERY

ZONE BLF:	792
ZONE BLFR:	82
ZONE BLFTR:	710
ZONE % REC:	10.4%
WELL BLF:	2509
WELL BLFR:	1042
WELL BLFTR:	1467
WELL % REC:	41.5%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

5/1/97	\$1,802.00	PERFORATIONS:
		5662-5666 Green River (Castle Peak) (undifferentiated) 4 SPF 16 shots
		5354-5360 Green River D (07) 4 SPF 24 shots
		5232-5234 Green River D (03.4) 4 SPF 8 shots
		5212-5224 Green River D (03.3) 4 SPF 48 shots
		5157-5161 Green River D (01) 4 SPF 16 shots
		5038-5044 Green River C (08.2) 4 SPF 24 shots
		5030-5032 Green River C (08.2) 4 SPF 8 shots
		4962-4964 Green River C (06) 4 SPF 8 shots
		4947-4949 Green River C (06) 4 SPF 8 shots
		4932-4934 Green River C (06) 4 SPF 8 shots
		4799-4801 Green River C (05) 4 SPF 8 shots
		4778-4790 Green River C (04) 4 SPF 48 shots
		WELLBORE:
		6192 RTD
		6193 LTD
		6140 PBTD
		6182 CSA

Open well w/ C8.2 & D1 zones swbd to 1400' & MOC @ trace last PM. This AM SICP @ 75 psi & SITP @ 120 psi. RU & swb well. Made 33 runs in 11 hrs. MOC @ 8%. FFL @ 2000'. TWR @ 187 bbls. TOR @ 11 bbls. Note: May have fraced from D1 to D3.3 causing C8.2 & D1 to appear to be somewhat wet. SWIFN.

FLUID RECOVERY

ZONE BLF:	638
ZONE BLFR:	370
ZONE BLFTR:	268
ZONE % REC:	58.%
WELL BLF:	1707
WELL BLFR:	960
WELL BLFTR:	747
WELL % REC:	56.2%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

4/30/97	\$1,694.00	PERFORATIONS:
---------	------------	---------------

5662-5666	Green River (Castle Peak) (undifferentiated)	4 SPF	16 shots
5354-5360	Green River D (07)	4 SPF	24 shots
5232-5234	Green River D (03.4)	4 SPF	8 shots
5212-5224	Green River D (03.3)	4 SPF	48 shots
5157-5161	Green River D (01)	4 SPF	16 shots
5038-5044	Green River C (08.2)	4 SPF	24 shots
5030-5032	Green River C (08.2)	4 SPF	8 shots
4962-4964	Green River C (06)	4 SPF	8 shots
4947-4949	Green River C (06)	4 SPF	8 shots
4932-4934	Green River C (06)	4 SPF	8 shots
4799-4801	Green River C (05)	4 SPF	8 shots
4778-4790	Green River C (04)	4 SPF	48 shots

WELLBORE:

6192	RTD
6193	LTD
6140	PBTD
6182	CSA

Open well w/ C8.2 zone flowed to 0 psi last PM. This AM SICP @ 0 psi. RIH w/ ret head & tag sand @ 4777'. Clean out to RBP @ 5100'. Rel RBP & POOH. RIH w/ ret head & tag sand @ 5172'. POOH to 4932' & RU swb. Made 15 uns in 3 hrs. IFL @ surf. MOC @ trace. FFL @ 1400'. TWR @ 95 bbls. SWIFN.

FLUID RECOVERY

ZONE BLF:	638
ZONE BLFR:	183
ZONE BLFTR:	455
ZONE % REC:	28.7%
WELL BLF:	1707
WELL BLFR:	773
WELL BLFTR:	934
WELL % REC:	45.3%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

4/29/97	\$28,249.00	PERFORATIONS:
		5662-5666 Green River (Castle Peak) 4 SPF 16 shots (undifferentiated)
		5354-5360 Green River D (07) 4 SPF 24 shots
		5232-5234 Green River D (03.4) 4 SPF 8 shots
		5212-5224 Green River D (03.3) 4 SPF 48 shots
		5157-5161 Green River D (01) 4 SPF 16 shots
		5038-5044 Green River C (08.2) 4 SPF 24 shots
		5030-5032 Green River C (08.2) 4 SPF 8 shots
		4962-4964 Green River C (06) 4 SPF 8 shots
		4947-4949 Green River C (06) 4 SPF 8 shots
		4932-4934 Green River C (06) 4 SPF 8 shots
		4799-4801 Green River C (05) 4 SPF 8 shots
		4778-4790 Green River C (04) 4 SPF 48 shots
		WELLBORE:
		6192 RTD
		6193 LTD
		6140 PBTD
		6182 CSA

Open well w/ D3.3 & D3.4 swbd to 2600' & MOC @ trace yesterday. This AM SICP @ 100 psi & SITP @ 100 psi. RU & swb well. Made 1 run. FL @ 1900' & to 50' oil. RD swb. RIH & tag sand @ 5250'. Clean out to BVBP @ 5300'. Rel BVBP & POOH to 5196'. Reset BVBP & test to 3500 psi. POOH to 5165' & spot 6 bbls 15% HCL @ D1 perf interval. POOH w/ ret head.

RU HLS & perf D1 zone @ 5157-61' w/ 4 spf (16 holes). Bkdn D1 perms @ 2760 psi. Frac D1 zone w/ 4069 gal Boragel 30 w/13100# 20/40 sand @ .5 - 8 ppg. MTP @ 3500 psi. ATP @ 3000 psi. MTR @ 22 bpm. ATR @ 20 bpm. ISIP @ 2350 psi. 5 min @ 2100 psi.

RU HLS & lub in well w/ RBP & perf guns. Set RBP @ \pm 5100'. Test RBP to 3000 psi. Perf C8.2 zone 5030-32' w 4 spf (8 holes) & 5038-44' w/ 4 spf (24 holes). Attempt to bkdn perms w/ K wtr. Failed @ 3000 psi. Spot HCL @ perms w/ dump bailer & bkdn perms @ 3500 psi.

RU HES & frac C8.2 zone w/ 250 gal 15% HCL & 7666 gal Boragel 30 w/ 42000# 20/40 sand @ .5 to 10 ppg. MTP @ 2750 psi. ATP @ 2350 psi. MTR @ 32 bpm. ATR @ 30 bpm. ISIP @ 2164 psi. 5 min @ 2046 psi. Pfg @ .86. Flow C8.2 zone to pit @ 5 min SI @ \pm 60 bph to 0 psi. Flowed 88 bbls to 0 psi. SWIFN.

BHP = 1534 psi = .29 psi/ft.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
------------	------------	--------	------

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Well: Ute Tribal 16-09

Elevation: KB 6230

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

frac fluid Boragel 30 4069 gal

PROPPANT: Type Total Lbs: Ramp Range
1 20/40 sand 13100 .5-8

PRESSURE/RATE:
Maximum: 3500 psi 22 BPM
Average: 3000 psi 20 BPM

SI PRESSURE: TP CP
ISIP: 2350
5 Min: 2100

STIMULATION TREATMENT:

FLUID:

Fluid Task Fluid Type Amount Unit
frac fluid Boragel 30 7666 gal

PROPPANT: Type Total Lbs: Ramp Range
1 20/40 sand 42000 .5-10

PRESSURE/RATE:
Maximum: 2750 psi 32 BPM
Average: 2350 psi 30 BPM

SI PRESSURE: TP CP
ISIP: 2164
5 Min: 2046

FLUID RECOVERY

ZONE BLF: 638
ZONE BLFR: 88
ZONE BLFTR: 550
ZONE % REC: 13.8%
WELL BLF: 1707
WELL BLFR: 678
WELL BLFTR: 1029
WELL % REC: 39.7%

10/15/97

COMPLETION REPORT

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Well: Ute Tribal 16-09

County, St.: Duchesne UT

Elevation: KB 6230

GL 6220

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

4/28/97	\$1,635.00	PERFORATIONS:
---------	------------	---------------

5662-5666	Green River (Castle Peak) (undifferentiated)	4 SPF	16 shots
5354-5360	Green River D (07)	4 SPF	24 shots
5232-5234	Green River D (03.4)	4 SPF	8 shots
5212-5224	Green River D (03.3)	4 SPF	48 shots
5157-5161	Green River D (01)	4 SPF	16 shots
5038-5044	Green River C (08.2)	4 SPF	24 shots
5030-5032	Green River C (08.2)	4 SPF	8 shots
4962-4964	Green River C (06)	4 SPF	8 shots
4947-4949	Green River C (06)	4 SPF	8 shots
4932-4934	Green River C (06)	4 SPF	8 shots
4799-4801	Green River C (05)	4 SPF	8 shots
4778-4790	Green River C (04)	4 SPF	48 shots

WELLBORE:

6192	RTD
6193	LTD
6140	PBTD
6182	CSA

Open well. D3.3 & D3.4 zone swbd to 1500' & trace of oil last PM. This AM SICP @ 0 psi & SITP @ 50 psi. RU & swb well. Made 27 runs in ± 9 hrs. IFL @ 700'. MOC @ trace. FFL @ 2600'. TWR @ 183 bbls. SWIFN.

BHP = 1954 psi = .37 psi/ft.

FLUID RECOVERY

ZONE BLF:	485
ZONE BLFR:	332
ZONE BLFTR:	153
ZONE % REC:	68.5%
WELL BLF:	1069
WELL BLFR:	590
WELL BLFTR:	479
WELL % REC:	55.2%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.	Elevation: KB 6230
Well: Ute Tribal 16-09	GL 6220
County, St.: Duchesne UT	

Activity Date Daily Cost Activity Description

4/25/97	\$21,302.00	PERFORATIONS:
		5662-5666 Green River (Castle Peak) 4 SPF 16 shots
		(undifferentiated)
		5354-5360 Green River D (07) 4 SPF 24 shots
		5232-5234 Green River D (03.4) 4 SPF 8 shots
		5212-5224 Green River D (03.3) 4 SPF 48 shots
		5157-5161 Green River D (01) 4 SPF 16 shots
		5038-5044 Green River C (08.2) 4 SPF 24 shots
		5030-5032 Green River C (08.2) 4 SPF 8 shots
		4962-4964 Green River C (06) 4 SPF 8 shots
		4947-4949 Green River C (06) 4 SPF 8 shots
		4932-4934 Green River C (06) 4 SPF 8 shots
		4799-4801 Green River C (05) 4 SPF 8 shots
		4778-4790 Green River C (04) 4 SPF 48 shots
		WELLBORE:
		6192 RTD
		6193 LTD
		6140 PBTB
		6182 CSA

Open well w/ plug set above all perms. SICP @ 0 psi. SITP @ 0 psi. Spot 6 bbls 15% HCL @ D3.3 & D3.4 perf interval & POOH w/ ret head.

RU HLS & perf D3.3 @ 5212-24' w/ 4spf (48 holes) & D3.4 @ 5232-34' w/ 4 spf (8 holes). RU HES & bkdn perms @ 1600 psi. IR @ 7 bpm @ 1500 psi.

Frac D3.3 & D3.4 zone w/ 10155 gal Boragel 30 w/ 62000# 20/40 @ .5 - 10 ppg. MTP @ 2650 psi. ATP @ 2300 psi. MTR @ 37 bpm. ATR @ 36 bpm. ISIP @ 2258 psi. 5 min @ 2055 psi.

Flow D3.3 & D3.4 zone to tank @ 5 min SI @ \pm 60 bph to 0 psi. Flowed 80 bbls to 0 psi. RIH w/ ret head to 2900' & circ clean. RIH to 5246' & circ clean. POOH to 5120' & RU swab. Made 11 runs in 2 hrs. IFL @ surf. Oil cut @ trace on last run. TWR swbg @ 69 bbls. FFL @ 1500'. SWIFN.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	10155	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
1	20/40 sand	62000	.5-10

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

PRESSURE/RATE:

Maximum:	2650 psi	37 BPM
Average:	2300 psi	36 BPM

SI PRESSURE:

	TP	CP
ISIP:	2258	
5 Min:	2055	

FLUID RECOVERY

ZONE BLF:	485
ZONE BLFR:	149
ZONE BLFTR:	336
ZONE % REC:	30.7%
WELL BLF:	1069
WELL BLFR:	407
WELL BLFTR:	662
WELL % REC:	38.1%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

4/24/97	\$1,169.00	PERFORATIONS:
---------	------------	---------------

5662-5666	Green River (Castle Peak) (undifferentiated)	4 SPF	16 shots
5354-5360	Green River D (07)	4 SPF	24 shots
5232-5234	Green River D (03.4)	4 SPF	8 shots
5212-5224	Green River D (03.3)	4 SPF	48 shots
5157-5161	Green River D (01)	4 SPF	16 shots
5038-5044	Green River C (08.2)	4 SPF	24 shots
5030-5032	Green River C (08.2)	4 SPF	8 shots
4962-4964	Green River C (06)	4 SPF	8 shots
4947-4949	Green River C (06)	4 SPF	8 shots
4932-4934	Green River C (06)	4 SPF	8 shots
4799-4801	Green River C (05)	4 SPF	8 shots
4778-4790	Green River C (04)	4 SPF	48 shots

WELLBORE:

6192	RTD
6193	LTD
6140	PBTD
6182	CSA

Open well w/ CP & D7 zones swbd to 4% oil & 3200' last PM. This AM SICP @ 120 psi & SITP @ 160 psi. RU & swb well. Made 9 runs in 4 hrs. IFL @ 1400'. Oil cut @ 1% on run #3 & incr to 69% on run #9. FFL @ 4100'. TWR @ 44 bbls. TOR @ 29 bbls.

Circ hole w/ hot K wtr. RIH w/ ret head & clean out to BVBP @ 5791'. Rel BVBP & POOH to 5300' & reset. POOH w/ ret head to 5246' & test BVBP to 4000 psi. SWIFN.

BHP = 1872 psi = .35 psi/ft.

FLUID RECOVERY

ZONE BLF:	584
ZONE BLFR:	258
ZONE BLFTR:	326
ZONE % REC:	44.2%
WELL BLF:	584
WELL BLFR:	258
WELL BLFTR:	326
WELL % REC:	44.2%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

4/23/97	\$1,718.00	PERFORATIONS:		
		5662-5666	Green River (Castle Peak) (undifferentiated)	4 SPF 16 shots
		5354-5360	Green River D (07)	4 SPF 24 shots
		5232-5234	Green River D (03.4)	4 SPF 8 shots
		5212-5224	Green River D (03.3)	4 SPF 48 shots
		5157-5161	Green River D (01)	4 SPF 16 shots
		5038-5044	Green River C (08.2)	4 SPF 24 shots
		5030-5032	Green River C (08.2)	4 SPF 8 shots
		4962-4964	Green River C (06)	4 SPF 8 shots
		4947-4949	Green River C (06)	4 SPF 8 shots
		4932-4934	Green River C (06)	4 SPF 8 shots
		4799-4801	Green River C (05)	4 SPF 8 shots
		4778-4790	Green River C (04)	4 SPF 48 shots
		WELLBORE:		
		6192	RTD	
		6193	LTD	
		6140	PBTD	
		6182	CSA	

Open well w/ D7 zone fraced & flowed yesterday. This AM SICP @ 700 psi. Bleed off csg psi & RIH w/ ret head. Tagged sand @ 5529'. Clean out to 5791' & POOH to \pm 5307'.

RU & swab CP & D7 zones together. Made 15 runs in 4 hrs. IFL @ surface. Oil cut @ 2% on run #9 & incr to 4% on last run. FFL @ 3200'. TWR @ 94 bbls. SWIFN.

FLUID RECOVERY

ZONE BLF:	584
ZONE BLFR:	214
ZONE BLFTR:	370
ZONE % REC:	36.6%
WELL BLF:	584
WELL BLFR:	214
WELL BLFTR:	370
WELL % REC:	36.6%

COMPLETION REPORT

Petroglyph Operating Co., Inc.

10/15/97

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

4/22/97	\$27,198.00	PERFORATIONS:
		5662-5666 Green River (Castle Peak) 4 SPF 16 shots (undifferentiated)
		5354-5360 Green River D (07) 4 SPF 24 shots
		5232-5234 Green River D (03.4) 4 SPF 8 shots
		5212-5224 Green River D (03.3) 4 SPF 48 shots
		5157-5161 Green River D (01) 4 SPF 16 shots
		5038-5044 Green River C (08.2) 4 SPF 24 shots
		5030-5032 Green River C (08.2) 4 SPF 8 shots
		4962-4964 Green River C (06) 4 SPF 8 shots
		4947-4949 Green River C (06) 4 SPF 8 shots
		4932-4934 Green River C (06) 4 SPF 8 shots
		4799-4801 Green River C (05) 4 SPF 8 shots
		4778-4790 Green River C (04) 4 SPF 48 shots
		WELLBORE:
		6192 RTD
		6193 LTD
		6140 PBTD
		6182 CSA

Open well. SICP @ 0 psi w/ EOT @ \pm 5670'. Spot 250 gal 15% HCL across Castle Peak interval & POOH w/ ret head. RU HLS & perf Castle Peak zone @ 5662-66' w/ 4 spf (16 holes).

RU HES & bkdn Castle Peak zone @ 2190 psi. IR @ 7.4 bpm @ 2040 psi. Frac Castle Peak zone w/ 3900 gal Boragel 30 w/ 13000# 20/40 sand @ .5 - 8 ppg. Zone screen out w/ \pm 5200# of prop in form @ .5 - 6 ppg. MTP @ 4500 psi. ATP @ 2850 psi. MTR @ 25.6 bpm. ATR @ 22 bpm.

Flow well to pit @ 5 min SI @ \pm 60 bph. Well flowed \pm 31 bbls to 0 psi. RIH w/ ret head to 2900' & circ clean. RIH to 4800' & circ clean. RIH to 5374' & circ clean. Press up on sand plug in csg over Castle Peak zone to 4000 psi. Bleed off @ 100 psi in 5 min.

Spot 250 gal 15% HCL across D7 zone & POOH w/ ret head. RU HLS & perf D7 zone @ 5354 - 60' w/ 4 spf (24 holes). RD HLS & RU HES & bkdn D7 zone @ 3270 psi (w/acid @ perms). IR @ 16 bpm @ 1800 psi. ISIP @ \pm 1700 psi.

Frac D7 zone w/ 5752 gal Boragel 30 w/ 28000# 20/40 sand @ .5 - 10 ppg. Zone treated very well. MTP @ 3270 psi. ATP @ 2250 psi. MTR @ 22.7 bpm. ATR @ 22 bpm. ISIP @ 2350 psi. 5 min @ 2110 psi. Pfg @ .87. Flow well to pit @ \pm 60 bph to 0 psi. Well flowed 89 bbls to 0 psi. SWIFN.

STIMULATION TREATMENT:

FLUID:

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

Fluid Task Fluid Type
frac fluid Boragel 30

Amount Unit
3900 gal

PROPPANT: Type
1 20/40 sand

Total Lbs: Ramp Range
13000 .5-8

PRESSURE/RATE:

Maximum: 4500 psi
Average: 2850 psi

25.6 BPM
22 BPM

SI PRESSURE:

TP CP

STIMULATION TREATMENT:

FLUID:

Fluid Task Fluid Type
frac fluid Boragel 30

Amount Unit
5752 gal

PROPPANT: Type
1 20/40 sand

Total Lbs: Ramp Range
28000 .5-10

PRESSURE/RATE:

Maximum: 3270 psi
Average: 2250 psi

22.7 BPM
22 BPM

SI PRESSURE:

ISIP:
5 Min:

TP CP
2350
2110

FLUID RECOVERY

ZONE BLF:	584
ZONE BLFR:	120
ZONE BLFTR:	464
ZONE % REC:	20.5%
WELL BLF:	584
WELL BLFR:	120
WELL BLFTR:	464
WELL % REC:	20.5%

COMPLETION REPORT

10/15/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6230

Well: Ute Tribal 16-09

GL 6220

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

4/21/97	\$800.00	WELLBORE:
		6192 RTD
		6193 LTD
		6140 PBT
		6182 CSA

Open well. SICP @ 0 psi. No perf in well @ this time. PU & RIH w/ 5½" BVBP to ± 5791'. Set BVBP & POOH to ± 5683'. Will spot HCL in AM @ this point. SWIFN.

4/17/97	\$1,031.00	WELLBORE:
		6192 RTD
		6193 LTD
		6140 PBT
		6182 CSA

Moved rig from Ute Tribal 16-11 to loc'n. MIRU serv rig. NU frac head & BOPs. RU pump & lines & test csg to 4500 psi. SWIFN & wait on job plan.

Cumulative Cost: \$156,113.00

Days Since Start: 34

SUBMIT IN DUPLICATE
(See other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
(Expires August 31, 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
14-20-H62-3511

6. IF INDIAN, ALOTTEE OR TRIBE NAME
Ute Indian Tribe

7. UNIT AGREEMENT NAME
14-20-H62-4650

8. FARM OR LEASE NAME

9. WELL NO.
Ute Tribal 16-09

10. FIELD AND POOL, OR WILDCAT
Antelope Creek

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
NESE Sec. 16-T5S-R3W

12. County or Parish
Duchesne

13. State
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. a. TYPE OF WELL: Oil Well ☒ Gas Well ☐ Dry ☐ Other ☐

b. TYPE OF COMPLETION: New Well ☒ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Reserv. ☐ Other ☐

2. NAME OF OPERATOR
Petroglyph Operating Company, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 607, Roosevelt, UT 84066 (801) 722-2531

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1967' FSL 594' FEL

At top prod. interval reported below

At total depth 6192' RTD

CONFIDENTIAL

14. PERMIT NO.
43-013-31852

DATE ISSUED
3/25/97

15. DATE SPUDDED 3/29/97

16. DATE T.D. REACHED 4/5/97

17. DATE COMPLETED (Ready to prod.)
5/8/97

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
6220' GL

19. ELEV. CASINGHEAD
6220'

20. TOTAL DEPTH, MD & TVD
6192' RTD

21. PLUG BACK T.D., MD & TVD
6139'

22. IF MULTIPLE COMPL., HOW MANY*
7

23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

Green River

26. TYPE ELECTRIC AND OTHER LOGS RUN
CNL, AIT 10-22-97

CONFIDENTIAL

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	344'	12-1/4"	225 sxs Type 5	
5-1/2"	15-5#	6183'	7-7/8"	90 sxs Highfill	
				330 sxs Thixotropic	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5930'	

31. PERFORATION RECORD (Interval, size and number)

CP 5662-66' (16 shots)
D7 5354-60' (24 shots)
D3.4 5232-34' (8 shots)
D3.3 5212-24' (48 shots)
D1 5157-5161' (16 shots)
C8.2 5038-44 (24 shots)

C8.2 5030-32' (8 shots)
C6 4962-64' (8 shots)
C6 4947-49' (8 shots)
C6 4932-34 (8 shots)
C5 4799-4801' (8 shots)
C4 4778-90 (48 shots)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5662-66'	3900 gal Boragel, 5200# 20/40 prop
5354-60'	5752 gal Boragel, 28000# 20/40 prop
5212-24' & 5232-34'	10155 gal Boragel, 62000# 20/40 prop
5157-61'	4069 gal Boragel, 13100# 20/40 prop
5030-32' & 5038-44'	250 gal HCl 15% & 7666 gal Boragel, 42000# 20/40 sand; (con't)

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)				WELL STATUS (Producing or shut-in)	
8/2/97		2½" x 1-3/4" x 16' 40 ring RHAC pump				producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
8/11/97	24			23	80	80	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
	1150	24 HR. RATE					

34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.)

CONFIDENTIAL
PERIOD
EXPIRED
ON 6-6-98

TEST WITNESSED BY
Dave Schreiner

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Signed

Deanna Bell

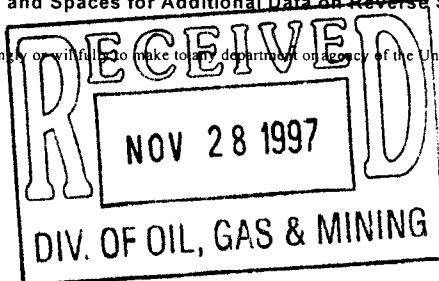
Title Operations Coordinator

Date

11-25-97

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



CONFIDENTIAL

WELL COMPLETION 16-09

(continued)

32.

4932-34, 4947-49, 4962-64' 7730 gal Boragel, 42500# 20/40 prop
4778-90, 4778-90, 4799-4801' 250 gal 15% HCl & 10745 gal Boragel,
64100# 20/40 sand

CONFIDENTIAL

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
B Marker X Marker Y Marker Douglas Creek B Limestone Castle Peak Basal Carbonate	4116 4604 4640 4751 5132 5686 6084		<div>CONFIDENTIAL</div>			

38. GEOLOGIC MARKERS

ENTITY ACTION FORM - FORM 6

OPERATOR Petroleum Operating Company, Inc.
ADDRESS P. O. Box 907
Roosevelt, UT 84088

OPERATOR ACCT. NO. N3800

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	APPROVER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					N	E	T	R			
G	12273	12166	33-013-31062	Una Tribal 16-00	NENE	10	55	3W	Duchesne	9/19/07	
WELL 1 COMMENTS: Entity chg'd fr. 12273 to 12166; common tank on 1-23-98. Jec											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See Instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group of unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Deanna Bell
Signature Deanna Bell

Operations Coordinator 1/22/98
Title Date

Phone No. (435) 722-2531

15001/001

15001/001

15001/001

15001/001

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. 1420H623511
2. Name of Operator PETROGLYPH OPERATING COMPANY,		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066		7. If Unit or CA/Agreement, Name and/or No. 1420H624650
3b. Phone No. (include area code) Ph: 435.722.2531 Fx: 435.722.9145		8. Well Name and No. UTE TRIBAL 16-09
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 16 T5S R3W NESE 1967FSL 594FEL		9. API Well No. 43-013-31852
		10. Field and Pool, or Exploratory ANTELOPE CREEK
		11. County or Parish, and State DUCHESNE COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input checked="" type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above referenced well had the perforation interval of 5212 to 5234 squeezed with 85 sxs class G cement into the formation on 12/18/2001. Then the well was reperforated and Acidize in other zones details are below.

Zones Perforated
4775 to 4779, 4788 to 4792, 5042 to 5046; with 4 sps 120 deg.
Zones Acidize
5354 to 5360 treated with 600 gallons 15% HCL and additives.
5157 to 5161 treated with 400 gallons 15% HCL and additives
5030 to 5046 treated with 750 gallons 15% HCL and additives
4932 to 4964 treated with 500 gallons 15% HCL and additives
4775 to 4801 treated with 1100 gallons 15% HCL and additives

RECEIVED

MAR 13 2002

**DIVISION OF
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #10700 verified by the BLM Well Information System For PETROGLYPH OPERATING COMPANY,, sent to the Vernal	
Name (Printed/Typed) MICHEAL SAFFORD	Title COORDINATOR
Signature (Electronic Submission)	Date 03/07/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Additional data for EC transaction #10700 that would not fit on the form

32. Additional remarks, continued

Then treated well with 55 gallons Gypton T-229 (Champion Technologies), 220 gallons methanol, in 33 bbls water, followed with 45 bbls water. They then shut-in the tubing and injected 45 bbls water down the casing at 1800 pounds at a rate of 2 bpm. Then reversed and injected 45 bbls water down the tubing and at 1800 pounds at a rate of 2 bpm. The well was left Shut-in for 24 hours then returned to production on 12/22/2001.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

Ref: 8P-W-GW

OCT 5 2005

RECEIVED

OCT 11 2005

DIV. OF OIL, GAS & MINING

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Steve Wall, District Manager
Petroglyph Energy, Inc.
4116 West 3000 So. Ioka Lane
Roosevelt, UT 84066

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RE: Additional Well to Antelope Creek Area Permit
UIC Permit No. UT20736-00000
Well ID: UT20736-06604
Ute Tribal No.16-09, Duchesne County, Utah

430133/852 16 55 3W

Dear Mr. Wall:

The Petroglyph Operating Company, Inc. (Petroglyph) request to convert the former Green River Formation oil well Ute Tribal No.16-09 to an enhanced recovery injection well in the Antelope Creek Waterflood project is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization For Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Antelope Creek Waterflood UIC Area Permit No. UT20736-00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, the Ute Tribal No.16-09 is subject to all terms and conditions of the UIC Area Permit UT20736-00000 as modified.

Please be aware that Petroglyph does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and Petroglyph has received written authorization from the Director to begin injection.

Prior to receiving authorization to inject, the EPA requires that Petroglyph submit for review and approval the following: (1) the results of a **Part I (Internal) mechanical integrity**



Printed on Recycled Paper

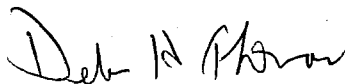
test (MIT), (2) a **pore pressure** calculation of the injection interval, (3) a completed **EPA Form No. 7520-12 Well Rework Record**.

Please also note that you are required to demonstrate Part II MI no more than 180 days after commencing injection and at least once every five years thereafter. The 180 day limited period for injection prior to the test is authorized in order to allow for stabilization of the injection formation prior to the test

The initial Maximum Allowable Injection Pressure (MAIP) for the Ute Tribal No.16-09 was determined to be **1745 psig**. UIC Area Permit UT20736-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a step rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Ms. Patricia Pfeiffer at (303) 312-6271 or 1.800.227.8917 (Ext. 6271). Please submit the required data to **ATTENTION: PATRICIA PFEIFFER**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

encl: Authorization For Conversion of An Additional Well
EPA Form No. 7520-12 (Well Rework Record)

cc: without enclosures

Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026

cc: with enclosures

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

Elaine Willie
Environmental Coordinator
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

Gil Hunt
Technical Services Manager
Utah Division of Oil, Gas, and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE
BLM - Vernal District
170 South 500 East
Vernal, UT 84078



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

999 18TH STREET - SUITE 300

DENVER, CO 80202-2466

Phone 800-227-8917

<http://www.epa.gov/region08>

AUTHORIZATION FOR ADDITIONAL WELL

UIC Area Permit No: UT20736-00000

The Antelope Creek Waterflood Final UIC Area Permit No. UT20736-00000, effective July 12, 1994, authorizes injection for the purpose of enhanced oil recovery into multiple lenticular sand units which are distributed throughout the lower portion of the Green River Formation. On December 20, 2004, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

Well Name:

Ute Tribal 16-09

EPA Well ID Number:

UT20736-06604

Location:

1967 ft FSL & 594 ft FEL

NE NE Sec. 16 - T5S - R3W

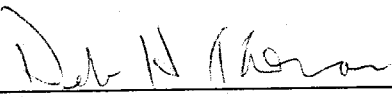
Duchesne County, Utah.

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20736-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20736-00000, as modified and as specified in the Well Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: OCT 5 2005


Stephen S. Tuber

* Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

** The person holding this title is referred to as the Director throughout the Permit and Authorization*



WELL-SPECIFIC REQUIREMENTS

Well Name: Ute Tribal 16-09
EPA Well ID Number: UT20736-06604

Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director:

1. a successful Part I (Internal) Mechanical Integrity test (MIT);
2. a successful Part II (External) Mechanical Integrity test (MIT) using a radioactive tracer survey;
3. pore pressure calculation of the proposed injection zone; and
4. completed Well Rework Record EPA Form No. 7520-12 and schematic diagram.

Approved Injection Zone: Injection is approved between the base of the Green River A Lime Marker, at approximately 4094 ft, to the top of the Basal Carbonate, at approximately 6088 ft.

Maximum Allowable Injection Pressure (MAIP): The initial MAIP is 1745 psig, based on the following calculation:

MAIP = [FG - (0.433)(SG)] * D, where

FG = 0.80 psi/ft SG = 1.002 D = 4775 ft (top perforation depth KB)

MAIP = 1745 psi (rounded down from 1748 to 1745)

UIC Area Permit No. UT20736-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a step rate test that demonstrates the formation breakdown pressure will not be exceeded.

Well Construction and Corrective Action: *The following Corrective Action is required.*

Based on the review of well construction and the cement bond log, well construction may not prevent significant fluid movement through vertical channels adjacent to the injection well bore, Part II (External) Mechanical Integrity (Part II MI). **Therefore the operator shall demonstrate Part II MI no more than 180 days after commencing injection and at least once every five years thereafter.** The 180 day limited period for injection prior to the test is authorized in order to allow for stabilization of the injection formation prior to the test. The demonstration shall be made using a temperature survey, noise log, oxygen activation log or a radioactive tracer survey under certain circumstances and with the Director's approval.

Tubing and Packer: 2-3/8" or similar size injection tubing is approved; the packer shall be set at a depth no more than 100 ft above the top perforation.

Corrective Action for Wells in Area of Review: *No Corrective Action is required.* The following wells that penetrate the confining zone are within or proximate to a 1/4 mile radius around the Ute Tribal No. 33-04 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Well: Ute Tribal No. 16-10 ●	Location: NW SE Sec. 16 - T5S - R3W
Well: Ute Tribal No. 15-12 ●	Location: SE Sec. 15 - T5S - R3W

Demonstration of Mechanical Integrity: A successful demonstration of Part I (Internal) Mechanical Integrity using a standard Casing-Tubing pressure test is required prior to injection and at least once every five years thereafter. EPA reviewed the cement bond log and determined the cement may not provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR 146.8 (a)(2). Therefore, further demonstration of Part II (External) Mechanical Integrity is required at this time.

Demonstration of Financial Responsibility: The applicant has demonstrated financial responsibility via a Surety Bond that has been reviewed and approved by the EPA.

Plugging and Abandonment: The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs, and in accordance with other applicable federal, State or local law or regulation. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation at 4775 ft with a minimum 20 ft cement plug on top of the CIBP.

PLUG NO. 2: Set a minimum 200 ft cement plug inside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale, between approximately 2864 ft to 3064 ft.

PLUG NO. 3: Set a minimum 200 ft cement plug inside of the 5-1/2" casing across the Green River, between approximately 1580 ft to 1780 ft.

PLUG NO. 4: Set a minimum 200 ft cement plug on the backside of the 5-1/2" casing, across the Green River, between approximately 1580 ft to 1780 ft.

PLUG NO. 5: Set a minimum 50 ft cement plug on the backside of the 5-1/2" casing, across the surface casing shoe at 344 ft (unless pre-existing backside cement precludes cement-squeezing this interval.)

PLUG NO. 6: Set a cement plug inside of the 5-1/2" casing, from at least 369 ft to 319 ft.

PLUG NO. 7: Set a cement plug on the backside of the 5-1/2" casing, from surface to a depth of at least 50 ft.

PLUG NO. 8: Set a cement plug inside of the 5-1/2" casing from surface to a depth of at least 50 ft.

Cut off surface and 5-1/2" casing at least 4 ft below ground level and set P&A marker;

submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

Reporting of Noncompliance:

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting:

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at 303.293.1788 if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting:

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1.800.424.8802 or 202.267.2675**, or through the NRC website at **<http://www.nrc.uscg.mil/index.htm>**.

Other Noncompliance:

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

Other Information:

Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

WELL-SPECIFIC CONSIDERATIONS

Well Name: Ute Tribal 16-09
EPA Well ID Number: UT20736-00000

Underground Sources of Drinking Water (USDWs): USDWs in the Antelope Creek Waterflood area generally may occur within the Uinta Formation, which extends from the surface to the top of the Green River Formation at approximately 1700 ft. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 167 ft below ground surface at this well location. Petroglyph Energy, Inc. provided documentation stating that the base of the USDW was found at 1240 ft (KB). Based on analysis of the submitted cement bond log (CBL) the top of casing cement in this well is at approximately 2370 ft (KB).

Confining Zone: The Confining Zone at this location is approximately 212 ft of interbedded limestone and shale between the depths of 3882 ft to 4094 ft (KB) which directly overlies the Injection Zone, based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log. Additional impermeable lacustrine shale beds above the Confining Zone provide for further protection for any overlying USDW.

Injection Zone: The Injection Zone at this well location is an approximately 1989 ft section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of the Confining Zone at 4094 ft (KB) to the top of the Basal Carbonate Formation at 6088 ft (KB), based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log.

Well Construction: The CBL shows approximately 16 ft of 60% pipe amplitude bond through the confining zone.

Surface casing: 8-5/8" casing is set at 344 ft (KB) in a 12-1/4" hole, using 225 sacks cement circulated to the surface.
Longstring casing: 5-1/2" casing is set at 6192 ft (KB) in a 7-7/8" 6192 ft Total Depth hole with a plugged back total depth (PBSD) of 6140 ft, cemented with 420 sacks cement.
Top of Cement (TOC): 2370 ft (KB) CBL.

Perforations: top perforation: 4775 ft Bottom perforation: 5666 ft

Wells in Area of Review (AOR): Construction and cementing records, including cement bond logs (CBL) as available, for two wells in the 1/4 mile AOR that penetrated the confining zone were reviewed and found adequate to prevent fluid movement out of the injection zone and into USDWs.

Well: Ute Tribal No. 16-10 ●
Well: Ute Tribal No. 15-12 ●

Casing Cement top: 2750 ft (CBL)
Casing Cement top: 390 ft (CBL)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

999 18TH STREET - SUITE 300

DENVER, CO 80202-2466

Phone 800-227-8917

<http://www.epa.gov/region08>

NOV - 9 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Steve Wall, District Manager
Petroglyph Energy, Inc.
4116 West 3000 So. Ioka Lane
Roosevelt, UT 84066

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

55 3W 16

43-013-31852

RE: **Additional Well to Antelope Creek Area Permit**
UIC Permit No. UT20736-00000
Well ID: UT20736-06604
Ute Tribal No.16-09, Duchesne County, Utah

RECEIVED

NOV 16 2005

DIV. OF OIL, GAS & MINING

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal 16-09 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior To Commencing Injection" requirements for the Ute Tribal 16-09 injection well required well owner and operator Petroglyph Energy, Inc. to submit the following information to the Director:

1. A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
2. Pore pressure calculation of the proposed injection zone, and
3. completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal 16-09 enhanced recovery injection well under the conditions of the Authorization for Additional Well and UIC Area Permit UT20736-00000 as modified.



Printed on Recycled Paper

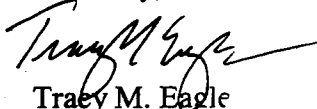
As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

Technical Enforcement Program - UIC
U.S. EPA Region 8, Mail Code 8ENF-UFO
999 18th Street, Suite 300
Denver, Colorado 80202-2466

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal 16-09 is 1745 psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of Authorization for Additional Well UT20736-06604 and EPA-UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,



Tracy M. Eagle
Director
Ground Water Program

cc: Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

Elaine Willie
Environmental Coordinator
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

Gil Hunt
Technical Services Manager
Utah Division of Oil, Gas, and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE
BLM - Vernal District
170 South 500 East
Vernal, UT 84078

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Water Injection Conversion</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3511
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 <u>Roosevelt</u> STATE <u>UT</u> ZIP <u>84066</u>		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>1967' FSL, 594' FEL</u>		8. WELL NAME and NUMBER: Ute Tribal 16-09
5. PHONE NUMBER: (435) 722-2531		9. API NUMBER: 4301331852
6. FIELD AND POOL, OR WILDCAT: Antelope Creek		
7. COUNTY: <u>Duchesne</u>		
8. STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry is serving notice that Petroglyph Operating Company Inc. (POCI) plan to convert the Ute Tribal 16-09 to an injection well from a producing well. This work is being performed under our area UIC permit number UT20736-06604. POCI has obtained approval to perform the conversion on the Ute Tribal 16-09 from the EPA. After the conversion on the Ute Tribal 16-09 is complete, POCI will submit the necessary information to the EPA to obtain approval to being injection operations.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Steve Wall TITLE MANAGER
SIGNATURE Steve Wall DATE 12-19-05

(This space for State use only)

RECEIVED

DEC 22 2005



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

NOV - 9 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Steve Wall, District Manager
Petroglyph Energy, Inc.
4116 West 3000 So. Ioka Lane
Roosevelt, UT 84066

RE: Additional Well to Antelope Creek Area Permit
UIC Permit No. UT20736-00000
Well ID: UT20736-06604
Ute Tribal No.16-09, Duchesne County, Utah

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal 16-09 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior To Commencing Injection" requirements for the Ute Tribal 16-09 injection well required well owner and operator Petroglyph Energy, Inc. to submit the following information to the Director:

1. A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
2. Pore pressure calculation of the proposed injection zone, and
3. completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal 16-09 enhanced recovery injection well under the conditions of the Authorization for Additional Well and UIC Area Permit UT20736-00000 as modified.



Printed on Recycled Paper

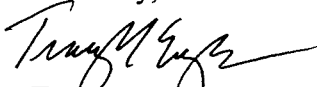
As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

Technical Enforcement Program - UIC
U.S. EPA Region 8, Mail Code 8ENF-UFO
999 18th Street, Suite 300
Denver, Colorado 80202-2466

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal 16-09 is 1745 psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of Authorization for Additional Well UT20736-06604 and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,



Traey M. Eagle
Director
Ground Water Program

cc: Maxine Natchees, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

Elaine Willie
Environmental Coordinator
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026

Gil Hunt
Technical Services Manager
Utah Division of Oil, Gas, and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE
BLM - Vernal District
170 South 500 East
Vernal, UT 84078

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3511
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Water Injection Conversion</u>		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		8. WELL NAME and NUMBER: Ute Tribal 16-09
3. ADDRESS OF OPERATOR: P.O. Box 607 QTR Roosevelt STATE UT ZIP 84066		9. API NUMBER: 4301331852
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1967' FSL, 594' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 16 T5S RW		10. FIELD AND POOL, OR WILDCAT: Antelope Creek COUNTY: Duchesne STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry is serving notice that Petroglyph Operating Company Inc. (POCI) plan to convert the Ute Tribal 16-09 to an injection well from a producing well. This work is being performed under our area UIC permit number UT20736-06604. POCI has obtained approval to perform the conversion on the Ute Tribal 16-09 from the EPA. After the conversion on the Ute Tribal 16-09 is complete, POCI will submit the necessary information to the EPA to obtain approval to being injection operations.

Accepted by
Utah Dept. of Natural Resources
Oil, Gas and Mining
FOR RECORD

NAME (PLEASE PRINT) <u>Steve Wale</u>	TITLE <u>MANAGER</u>
SIGNATURE <u>Steve Wale</u>	DATE <u>12-19-05</u>

(This space for State use only)

RECEIVED
JUL 21 2006
DIV. OF OIL, GAS & MINING